POTASSIUM PEROXIDE PLP250 979

:omposition it d Pt.

5-1 HR: 3 COBALTATE .79

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'm³ n³ (skin)

. 5 mg(CN)

ryanide comparaneously in then heated to fumes of CNT, DBALT COM-

HR: 3

ic crystals or horhombic to) @ 400° and p: 525° ± 10°. EtOH; insol in

NAT D PERIODO POTASSIUM ORATE, solid or

orted in EPA

ibel: Oxidizer

nental teratoare irritant to abranes. Has amia. Absorpamia and kid-

my industrial it with alumiium nitrate + s with alumiethylene glycol (240°C), cotton lint (245°C), furfural (270°C), lactose, metal powders (e.g., aluminum, iron, magnesium, molybdenum, nickel, tantalum, titanium), sulfur, titanium hydride. Reaction with ethanol + heat forms the explosive ethyl perchlorate. Violent reaction or ignition under the proper conditions with aluminum + aluminum fluoride, barium chromate + tungsten or titanium, boron + magnesium + silicone rubber, ferrocenium diamminetetrakis(thiocyanato-N) chromate(1-), porassium hexacyanocobaltate (3-), Al + Mg, charcoal, F₂, Ni + Ti, reducing agents. When heated to decomposition it emits very toxic fumes of K2O and CI-. See also PERCHLORATES.

PLP000 CAS:7722-64-7 HR: 3 POTASSIUM PERMANGANATE

DOT: UN 1490 mf: MnO.·K mw: 158.04

PROP: Air smble, dark-purple crysmls with a blue metallic sheen; sweetish astringent taste. Aq solns slowly deposit MnO₂. Mp: decomp @ <240°, d: 2.703. Sol in H₂O; mod sol in MeOH, AcOH, Me₂CO, and Py.

SYNS: CAIRON II CHAMELEON MINERAL II C.I.
77755 II CONDY'S CRYSTAIS II KALIUMPERMANGANAAT (DUTCH) II KALIUMPERMANGANAT (GERMAN)
III PERMANGANATE de POTASSIUM (FRENCII) III PERMANGANATE de POTASSIUM (DOT) III POTASSIO I PERMANGANATO dil) (ITALIAN) III POTASSIUM (PERMANGANATO de) (FRENCH)

CONSENSUS REPORTS: Manganese and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: Cl. 5 mg(Mn)/m³
ACGIH TLV: TWA 5 mg(Mn)/m⁴
DOT CLASSIFICATION: 5.1; *Label:* Oxidizer

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion and intravenous routes. Moderately toxic by subcutaneous route. Human systemic effects by ingestion: dyspnea, nausea, other gastrointestinal effects. Experimental reproductive effects. Mutation data reported. A strong itritant due to its oxidizing properties. Used in production of drugs of abuse, as a topical antibacterial agent, and a chemical reagent.

Flammable by chemical reaction. A powerful oxidizer. A dangerous explosion haz-

ard; handle with care. Explosions may occur in contact with organic or readily oxidizable materials, either when dry or in solution. Dangerous; keep away from combustible materials.

Explodes on confact with acetic acid, acetic anhydride, ammonium nitrate, dimethylformamide, formaldehyde, concentrated hydrochloric acid, potassium chloride + sulfuric acid, sulfuric acid + water. Forms sensitive explosive mixtures with aluminum powder + ammonium nitrate + glyceryl nitrate + nitrocellulose, ammonium perchlotate, arsenic, phosphorus, sulfur, slag wool, titanium.

Ignites on contact with Al,C,, dimethyl sulfoxide, ethylene glycol, H,5, HCl, H,SO, (H,SO, + organic matter), (H,SO, + KCl), NH,ClO, NH, NH, NO, NH,OH, organic matter, wood, oxygenated organic compounds (e.g., ethylene glycol, propane-1,2-diol, erythritol, mannitol, triethanolamine, 3-chloropropane-1,2-diol, acetaldehyde, isobutyraldehyde, benzaldehyde, acetylacetone, esters of ethylene glycol, lactic acid, acetic acid, oxalic acid).

Violent reaction or ignition under the proper conditions with acetone + tert-butylamine, alcohols + nitric acid, aluminum carbide, ammonia + suffuric acid, antimony, coal + peroxomonosulfuric acid, dichloromethylsilane, dimethyl sulfoxide, ethanol + sulfuric acid, glycerol, concentrated hydrofluoric acid, hydrogen peroxide, hydrogen trisulfide, hydroxylamine, carbon, organic nitro compounds, polypropylene, 3,4,4'-tri-methyldiphenyl sulfone.

When heated to decomposition it emits toxic fumes of K₂O. See also PERMANGANATES.

PLP250 CAS:17014-71-0 HR: 3 POTASSIUM PEROXIDE

DOT: UN 1491

mf: K₂O₂ mw: 110.2

PROP: Yellow, amorph mass or white crystals or deliquescent colorless orthorhombic crystals, Mp: 490°.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Dangerous fire hazard by spontaneous chemical reaction. It is a very

P

SODIUM P-HYDROX

YDRIDE

d NajO. See also

99-7 HR: 3

ite to brownshheating into Na h H₂O, NaOH + ; 0.9.

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; Label, Danger-

let ignites sponwhen exposed
explosive reacreinate + ethylimethyl sulf
Ignition or
ynormamide (auoropropionate,
tible with acetytalogens, sulfur,
unsuitable, use
the commeraces of sodium,
on it emits toxic
YDRIDES.

3-1 HR: 3 RIDE

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CORIDE TI SOOT

eported in EPA

·/m')/m'

)/m' (: Corrosive

is very toxic

to humans by ingestion; between I teaspoonful and I ounce may be fatal. Inhalation of dust may cause irritation to respiratory tract. Skin contact may result in irritation and ulceration; eye contact may cause burns. To fight fire, use water, foam, CO₂, dry chemicals. When heated to decomposition it emits toxic furnes of F and Na₂O. See also FLUORIDES and HYDROFLUORIC ACID.

SHR000 CAS:16721-80-5 HR: 3 SODIUM HYDROSULFIDE

DOT: UN 2318/NA 2922/NA 2949 mf. HNaS mw: 56,06

PROP: Colorless hexagonal crystals. Undergoes hexagonal to cubic transition, Mp. 350°. Very sol in H₂O₁ sol in EtOH.

SYNS: SODICM BISCLEIDE IT SODICM HYDROGEN STIFIDE IT SODICM HYDROSI LEIDE, SOMIOU (NA 2022) (DOT). I SODICM HYDROSI LEIDE, WITH 125 (WITHOUT OF CISTAILIZATION (UN 2318) (DOT). SODICM HYDROSI LEIDE, WITH 100 (UN 2318) (DOT). SODICM HYDROSI LEIDE, WITH 100 (UN MERCANTAN SODICM MERCANTINE SODICM MERCANTINE.

CONSENSUS REPORTS: Reported in EPA I'SCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive, Poison (NA 2922): DOT Class: 4.2; Label: Spontaneously Combustible (UN 2518): DOT Class: 8; Label: Corrosive (UN 2949)

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. Flammable when exposed to heat or flame. Spontaneous combustion. Reacts violently with diazonium salts. Readily yields H.S. When heated to decomposition it emits roxic fumes of SQ and Na O. See also SULFIDES and MERCAPTANS.

SHR500 CAS:7775-14-6 HR: 3 SODIUM HYDROSULPHITE

DOT: UN 1384

mft O,S,-2Na mw. 174.10

PROP: White, colorless, or yellow-white crystals. Mp: >300°. Decomp in water (hot): sltly sol in cold water; insol in acids.

SYNS: D-ON I HYDROLIN I K-BRITE I REDUCTIONE I SODIUM DITHONITE (DOT) I SODIUM MYDRON'LEITE (DOT) II SODIUM SULFONYLATE II

VARROLITE LI VIRITE DI VIRCHEM DI VIRTEX CO LI VIRTEX DI LI VIRTEX LI DI VIRTEX RD

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Toxic and an irritant. An allergen. Flammable when exposed to heat or flame. Ignites on contact with water or sodium chlorite. Decomposes violently when heated to 190°C and emits toxic fumes of SQ and Na₂O.

SHS000 CAS:1310-73-2 HR: 3 SODIUM HYDROXIDE DOT: UN 1823/UN 1824

mf: HN2O mw: 40.00

PROP: White, pieces, lumps, sticks or deliquescent, orthorhombic powder. Undergoes polymorphic transition at 2°, Readily reacts with atm CO forming Na CO, Mp: 323°, bp: 1390°, d: 2.120 @ 20°/4°, vap press: 1 mm @ 739°, Very sol in water and alc: insol in Et₂O, Me₂CO.

SYNS: CAUSTIC SODA II CAUSTIC SODA, bead (DOT) II CAUSTIC SODA, dec (DOT) II CAUSTIC SODA, dec (DOT) II CAUSTIC SODA, dec (DOT) II CAUSTIC SODA, sola (DOT) II CAUSTIC SODA SOLA (DOT) II CAUSTIC SODA SOLA (DOT) II CAUSTIC SODA (DECEMBRA) II CAUSTIC SODA (DECEMBRA) II CAUSTIC SODA (DECEMBRA) II CAUSTIC SODA (DOT) II SODIUM HYDROXIDE, bead (DOT) II SODIUM HYDROXIDE, bead (DOT) II SODIUM HYDROXIDE, flake (DOT) II SODIUM HYDROXIDE, granulat (DOT) II SODIUM HYDROXIDE GAUSTIC

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program

OSHA PEL: CL 2 mg/m³ ACGiH TLV: CL 2 mg/m³ DFG MAK: 2 mg/m³

NIOSH REL: (Sodium Hydroxide) CL 2 mg/m¹/15M

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. This

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SODIUM P-HYDROXYMERCURIBENZOATE SHU000 1065

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-80-5 HA: 3

LUORIC ACID.

IA 2949

crystals. Underisition. Mp: 350°. OH.

DIUM HYDROGEN
DE. Milution (NA
LÉIDE, With <25%
DT) ☐ SODIUM HYCerystallization (UN
UN ☐ SODIUM MER.

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abel: Corrosive, ass: 4.2; Label: (UN 2318); ive (UN 2949)

intraperitoneal utation data reskin, eyes, and able when exintaneous comith diazonium hen heated to fumes of SQ, and MERCAP-

-6 HR: 3

10

yellow-white in water (hor); in acids.

REDUCTION OF SOME

VATROLITÉ □ V-BRITE □ VIRCHEM □ VIRTEX CC □ VIRTEX D □ VIRTEX L □ VIRTEX RD

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Toxic and an irritant. An allergen, Flammable when exposed to heat or flame. Ignites on contact with water or sodium chlorite. Decomposes violently when heated to 190°C and emits toxic fumes of SQ and Na₂O.

SHS000 CAS:1310-73-2 HR: 3 SODIUM HYDROXIDE

DOT: UN 1823/UN 1824 mf: HNaO mw: 40.00

PROP: White, pieces, lumps, sticks or deliquescent, orthorhombic powder. Undergoes polymorphic transition at 2°. Readily reacts with atm CO, forming Na,CO, Mp: 323°, bp: 1390°, d: 2.120 @ 20°/4°, vap press: 1 mm @ 739°. Very sol in water and alc; insol in Et,O, Me,CO.

SYNS: CAUSTIC SODA II CAUSTIC SODA, head
(DOT) II CAUSTIC SODA, dry (DOT) III CAUSTIC
SODA, flake (DOT) III CAUSTIC SODA, granular (DOT)
III CAUSTIC SODA, liquid (DOT) III CAUSTIC SODA, solid
(DOT) III CAUSTIC SODA, solidion (DOT) III HY
DROXYDE de SODIUM (FRENCH) III LEWIS-RED DEVIL
LYE III LYE (DOT) III NATRIUMHYDROXID (GERMAN)
III NATRIUMHYDROXYDE (DUTCH) III SODA LYE III
SODIO(IDROSSIDO di) (ITALIAN) III SODIUM HY
DRATE (DOT) III SODIUM HYDROXIDE, bead (DOT)
III SODIUM HYDROXIDE, dry (DOT) III SODIUM (IY
DROXIDE, flake (DOT) III SODIUM HYDROXIDE, granular (DOT) III SODIUM HYDROXIDE, solid (DOT)
DIUM (HYDROXYDE de) (FRENCH) IIII WHITE CAUSTIC

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

OSHA PEL: CL 2 mg/m³
ACGIH TLV: CL 2 mg/m³
DFG MAK: 2 mg/m³
NIOSH REL: (Sodium Hydroxide) CL 2
mg/m³/15M
DOT CLASSIFICATION: 8: Label: Corrosive

SAFETY PHOFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. This

material, both solid and in solution, has a markedly corrosive action upon all body tissue, causing burns and frequently deep ulceration, with ultimate scarring. Mists, vapors, and dusts of this compound cause small burns, and contact with the eyes rapidly causes severe damage to the delicate tissue. Ingestion causes very serious damage to the mucous membranes or other tissues with which contact is made. It can cause perforation and scarring. Inhalation of the dust or concentrated mist can cause damage to the upper respiratory tract and to lung tissue, depending upon the severity of the exposure. Thus, effects of inhalation may vary from mild irritation of the mucous membranes to a severe pneumonitis.

17

A strong base. It can react violently with many substances. A dangerous material to handle. When heated to decomposition it emits toxic fumes of Na₂O.

SHS500 CAS:1310-73-2 HR: 3 SODIUM HYDROXIDE (liquid)

DOT: UN 1823/UN 1824 mf: HNgO mw: 40.00

PROP: Clear to slightly turbid, colorless liquid.

SYNS: CAUSTIC SODA, solution
LYE, solution
SODA LYE
SODIUM HYDRATE, solution
SODIUM HYDRAXE, solution
SODIUM HYDRAXE, solution
SODIUM HYDRAXIC, solution
SODIUM
SODIUM HYDRAXIC, solution
SODIUM HYDRAXIC

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. Community Right-To-Know List.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. When heated to decomposition it emits toxic fumes of Na₂O.

SHU000 CAS:138-85-2 HR: 3 SODIUM p-HYDROXYMERCURIBENZOATE mf: C₇H₈HgO₃·Na mw: 360.70

CONSENSUS REPORTS: Mercury and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: CL 0.1 mg(Ag)/m³ (skin)

S

0004 17

a-((ISOPROPYLAMI)

See also

HR: 3

SAFÉTY PROFILE: Poison by ingestion. Moderately toxic by intraperitoneal route. Experimental reproductive effects. Mutation data reported. When heated to decomposition it emits toxic fumes of NQ. See also AMIDES.

4p: --5%

DODLAI CAS:67-63-0 HR: 3 ISOPROPYL ALCOHOL DOT: UN (219

mf: C,H,O mw: 60.11

autoign 7.0°. Sltly xed oils. D ACETIC

: -69.31.

SETHYL ⊒ гема JANI C LACRIAT INCHO I

ROPYL AC

PROP: Clear, colorless liquid: slt odor, sltly bitter taste. Mp: -88.5 to -89.5°, bp: 82.5°, lel: 3.5%, uel: 12%, flash p: 53°F (CC), d: 0.7854 @ 20°/4°, refr index: 1.377 @ 20°, vap d: 2.0", ULC: "0, fp: -89.5", autoign temp: 852°F. Misc with water, alc, ether, chloroform; insol in salt solns.

l in EPA

SYNS: ALCOOL ISOPROPILICO (ITALIAN) CI AL COOL ISOPROPYLIQUE (FRENCH) TO DIMETHYLCARBI-NOL II ISOHOL II ISOPROPANOL (DOT) II ISO-PRO-PYLALEOHOL IGERMAN) II LUTOSOL II PETROHOL □ (PROPANOL (GERMAN) □ PROPAN-2-OL □ 1 PRO-PANOL I Sec-PROPYLIALCOHOL (DOT) II (-PROPYLAL-KOHOL (GERMAN) I SPECTRAR

ppm

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ammable

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re when ius: keep m react To fight See also

HR: 3

OPYGAMIC 3-2-PRO-(! METH-

EPA

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,229,87. The isopropyl alcohol strong acid manufacturing process is on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA +00 ppm: STEL 500 ppm ACGIH TLV: TWA 400 ppm: STEL 500 ppm DFG MAK: +00 ppm (980 mg/m') NIOSH REL: (Isopropyl Alcohol) TWA 400

ppm: CL 800 ppm/15M

DOT CLASSIFICATION: 3: Label: Flammable

SAFETY PROFILE: Moderately toxic to humans by an unspecified route. Moderately toxic experimentally by intravenous and intraperitoneal routes. Mildly toxic by skin contact. Human systemic effects by ingestion or inhalation: flushing, pulse rate decrease, blood pressure lowering, anesthesia, narcosis, headache, dizziness, mental depression, hallucinations, distoned perceptions, dyspnea, respiratory depression, nausea or vomiting, coma. Experimental teratogenic and reproductive effects. Mutation data reported. An eye and skin itritant. Questionable carcin-

The single lethal dose for a human adult is about 250 mL, although as little as 100 mL can be fatal. It can cause corneal burns and eye damage. Acts as a local respiratory irritant and in high concentration as a narcotic. It has good warning properties because it causes a mild irritation of the eyes, nose, and throat at a concentration level of 400 ppm. It may induce a mild narcosis, the effects of which are usually transient, and it is somewhat less toxic than the normal isomer, but twice as volatile.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Moderately explosive when exposed to heat or flame. Reacts with air to form dangerous peroxides. It can react violently with many substances. To fight fire, use CO., dry chemical, alcohol foam. When heated to decomposition it emits acrid smoke and fumes. See also ALCOHOLS,

CAS:75-31-0 HA: 3 INKOOD ISOPROPYLAMINE

DOT: UN 1221

mw: 59.13 mf: C,H,N

PROP: Colorless liquid: amino odor. Mp: -101.2°, flash p: -55°F (OC), d: 0.694 @ 15%+*, autoign temp: 756°F. d: 2.03. bp: 33-34°, lel: 2.3%, uel: 10.4%. Mise with water, alc, and ether.

SYNS: 2 AMINO PROPARA (DUTCH) II 2-AMINO-PROPAN (GERMAN) I L'AMINOPROPANE II 2-AMINO-PROPANO OTALIAN) 🖂 ISOPROPILAMINA OTALIAN: THE EMETHYLETHYLAMINE I MONOISOPROPYLAMINE □ 2-PROPANAMINE □ sec PROPYLAMINE □ 2 PROPY-LAMINE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory,

OSHA PEL: TWA 5 ppm; STEL 10 ppm ACGIH TLV: TWA 5 ppm: STEL 10 ppm DFG MAK: 5 ppm (12 mg/m') DOT CLASSIFICATION: 3: Label: Flammable Liquid; DOT Class: 3; Label: Flammable Liquid, Corrosive

SAFETY PROFILE: Poison by skin contact. Moderately toxic by ingestion. Mildly toxic by inhalation. A severe skin and eye irritant. Occusionally contact causes sensitization. Narcotic in high concentration. Very dangerous fire hazard and moderate explosion hazard when exposed to sparks, heat, flame,

or oxidizers dizing mate: ride to form ble with 1-ci fire, use ald When heate. fumes of N

INN400 N-ISOPROP mf: C,H,NC

PROP: Oil. H,Q.

SYNS: ETHA (ISOPROPYLAN ETHYL)AMINO. PYLAMINE [] I. PROPYLAMINO. MINE D MONC

CONSENSU TSCA Inven

SAFETY PR gestion. Exp When heate. fumes of N

INTOOO a-((ISOPRO THALENE RIDE $mf: C_{ij}H_{ij}N_{ij}$

PROP: Crv.

184 .

SYNS: ALDE I.C.I. HYDROC! - AMINO-1-(2-N1 □ a-(((1-METn THALENEMETH THYLISOPROT! IDE HYDROCH NETHALOL HY.

CONSENSU Review: Gro Limited Evi

SAFETY PF and intraper by ingestion experiment. ed to decc fumes of N

1092 SNK000 SULFAMETHOXAZOL

□ SULMET □ SULPHADIMETHYLPYRIMIDINE □ SULPHADIMIDINE □ SUPERSEPTH □ VERTOLAN

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intravenous and intraperitoneal routes. Experimental teratogenic and reproductive effects. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of SQ and NQ.

SNK000 CAS:723-46-6 HR: 3 SULFAMETHOXAZOL

nif: $C_{in}H_{ij}N_iO_jS$ mw: 253.30

PROP: Yellowish-white powder. Mp. 169-173°. Insol in Et.O.

SYNS: AMENO-N-13-METHYL 3-ISONAZQLYLJBEN ZENESULFONAMIDE LI Sup-aminophenylsulphon-AMIDO) S-METHYLISONAZOLE, II AZO GANTANOL II BACTRIM II CO-TRIMONAZOLE II EUSAPRIM II FEC TRIM LI GANTANOL T. Nº (5 METHYL 3-ISONAZOLE) SULFANILAMIDE Z Nº (5 METHYL-3 ISONAZOLYL)SUL FANGAMOR II N'OS-METHYLISONAZOUS YUSUU PHANICAMIDE IN 15-METHYL 3 ISONAZOLYLISUL-PHANILAMOR III 5-METOYI, 3 SULFANILAMOO-ISONAZOLE III 5-METHYL-3-SULPHANIL AMIDOISOXA ZOLE IL METOKAC IL MS 53, IL RADONIL, IL RO 👵 QIBO DI SINOMIN DI SEPTRA DI SEPTRAN DI SIM DI SULFAMETHALAZQUE 🗆 SULFAMETHONAZQUE 🗔 SULFAMETHYLISOXAZOLE [I] 3-SULFARILAMIDO-5-METHYLISONAZOUS II SULFISOMEZOLE II SULPHA METHALAZOLF II SULPHAMETHOXAZOL II SULPHA-MUTTIONAZOLE I SULPHAMETHYLISOXAZOLE I 4-SULPHANILAMIDO-5-METHYLISONAZOLE 🗆 SULPHISO-MEZOLE I TRIB I TRIMETOPRIM-SULFA

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,348,87: Human Inadequate Evidence IMEMDT 24,285,80: Animal Limited Evidence IMEMDT 24,285. 80 Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_c and SO_c.

SNK500 CAS:5329-14-6 HR: 3 SULFAMIC ACID

DOT: UN 2967

mf: H,NO,S mw: 97.10

PROP: White crystals; nonhygroscopic solid. Mp: 200* (decomp), bp: decomp, d: 203 @ 12*. Very sol in H₂O, liq NH₄, formamide.

SYNS: AMIDIOSULFONIC ACID II AMIDIOSULFURIC ACID II AMINOSULFONIC ACID II KYSELINA AMIDIO SULFONIOVA (CZECH) II RYSELINA SULFAMINOVA (CZECH) II RUFFAMIDIC ACID II SULFHAMIC ACID (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A human skin irritant. A corrosive irritant to skin, eyes, and mucous membranes. A substance that migrates to food from packaging materials. Violent or explosive reactions with chlorine, metal nitrates + heat, metal nitrites + heat, fuming HNO,. When heated to decomposition it emits very toxic fumes of SO, and NO. See also SULFONATES.

SNM500 CAS:63-74-1 **HR**: 3 SULFANILAMIDE

mf: C,H,N,O,S mw: 1"2.22

PROP: Crystals or leaflets from alc (aq). Mp: 164.5-166.5°, Sol in glycerin, propylene glycol, HCl: almost insol in chloroform, ether, benzene, pet ether.

SYNS: ALBEXAN II ALBOSAL II AMBESIDE II p-AMINOBENZENESULFAMIDE IT 6 AMINOBENZENE-SULFONAMIDE 🗀 4-AMINOBENZEÑESULFONAMIDE 🔟 p-aminophenylsulfonamide D 4-aminophenyl SULFONAMIDE \square p anilinesulfonamide \square ani-LINE p-SULFONIC AMIDE II ANTISTREFT II BACTER-AMID II COLLOMIDE II COLSULANYDE II COPTICIDE I DIPRON I ESTREPTOCIDA I F 1162 □ FOURNEAU 1162 □ GERISON □ GOMBARDOL □ LUSIL II LYSOGOGGINE II NEOGOGGYL II ORGASEP TINE III PARS III FRONTALBIN III PRONTOSILI III PROSEPTINA 🗇 PROSEPTÓL 🖾 PYSOCOCCINE 🖾 RU-BIAZOL A 🗇 SEPTAMIDE ALBUM 🗇 SEPTINAL 🗇 SEPTOPLEN II STOPTON ALBUM II STREPAMIDE II STREPTAGOL II STREPTOCLASE II STREPTOL II STREPTOSIL II STREPTOZONE II STREPTROCIDE II P-SULFAMIDOANILINE II SULFAMIDYI, II SULFAMA II SULFANALONE - SULFANIL - SULFOCIDINE - SUL-

METHYLENE CHLORIDE MJP450 753

ONY-5-ten-BUTYL IANOX 22 ... CYA TO BUTYL 4-ETHYL-OL. 2.2° SETHY--ETHYL-19GH © SAF CY 6 © YOSH

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intraperitoneal luctive effects, in it emits acrid

3 HR: 3 YANATO)TOL-

8.33

THANE 5,5' DI-

ported in EPA



by intravenous ited to decomif NQ and CN*.

0 HR: 3 IYLANILINE) 5

om EtOH, Mp;

CLMETHAN
INODIPHENYL
AT METHYLENERIS
THYLENE DISC

IARC Cancer DT 7.2+8,87; IMDT 4.73,74; Rory.

d Carcinogen,

ed carcinogen c data. Modereye irritant. Mutation data reported. When heated to decomposition it emits toxic fumes of NQ.

MJP400 CAS:101-68-8 HR: 3 METHYLENE BISPHENYL ISOCYANATE

DOT: UN 2489

 $\inf: C_{is}H_{in}N_{is}O_{is}$ mw: 250.27

PROP: Crystals or yellow fused solid. Mp: 37.3". bp: 184" @ 3 mm, d: 1.19 @ 50", vap press: 0.001 mm @ 40".

SYNS: BISQ ISOCYANATOPHENYLIMETHANE CI BIS ILA-ISOCYANATOPHENYL) METHANE II BISG-ISO-CYANATOPHENYL) METHANE D CARADATE 30 D DES-MODUR 44 [] DIFENIL METAN DISOCIANATO LITAL-IAN) II DIFENYLMETHAAN DIISSOCYANAAT (DUTCH) II 4-4'-DUSOCYANATE de DIFHENYLMETH-ANE (PRENCH) ID 4.4' DIISOCYANATODIPHENYLMETII-AND I DIPHENSIMETHAN 1, 2' DUSOCYANAT LIGER MAN) II DIPHENYL METHANE DIISOCYANATE II p.p* DIPHENYLMETHANE DIISOCYANATE (2) 4.4°-DIPPENYL METHANE DUSOCYANATE II DIPHENYLMETHANE 4/41 DISOCYANATE (DOT) I HYLENE M50 II ISONATE II MIDE II METHYLENEBISH-ISOCYANATOBENZENE) II 1.1 METHYLENERISM ISOCYANATORENZENE) [2] METHYLENERISOPPHENYLENE ISOCYANATE) II METH-YLENEBISC - PHENYLENE ISOCYANATE) D p.p. METHY LENEBISCHIENYL (SOCYANATE) T METHYLENEBISCH PHENYL ISOCYANATE: T. METHYLENERISO-PHENYL ISOCYANATE) II 4.3' METHYLENEBIS(PHENYL ISOCYA NATE) IT 4H' METHYLENEDIPHENYL DIINOCYANATE IJ METHYLENEDI p-PHENYLENE DUSOCYANATE II METHYLENEDI p PHENYLENE ISOCYANATE Z 4,41 METHYLENEDIPHENYLENE ISOCIYANATE II METH-YEENE DISPHENYERNE INOCYANATES (DOT). U. 1.41 METHYLENEDIPHENYL ISOCYANATE II NACCONATE 300 □ NCI-C50668 □ RUBINATE 44

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMOT 7.56.87, Reported in EPA TSCA Inventory, Community Right-To-Know List.

OSHA PEL: CL 0.02 ppm ACGIH TLV: 0.005 ppm

DFG MAK: 0.005 ppm (0.05 mg/m³); Suspected Carcinogen

NIOSH REL: (Diisocyanates) TWA 0.005 ppm; Ct 0.02 ppm/10M

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD; DOT Class: 6.1; Label: Poison; DOT Class: 6.1; Label: Poison. Flammable Liquid: DOT Class: 3: Label: Flammable Liquid, Poison

SAFETY PROFILE: Poison by inhalation. Mildly toxic by ingestion. Human systemic effects by inhalation: increased immune response and body remperature. A skin and eye irritant. An allergic sensitizer. Questionable carcinogen. Mutation data reported. A flammable liquid. When heated to decomposition it emits toxic fumes of NQ and SQ. See also CYANATES.

MJP450 CAS:75-09-2 HR: 3 METHYLENE CHLORIDE

DOT: UN 1593

mf: CH₁Cl₂ mw: 84.93

PROP: Colorless, volatile liquid: odor of chloroform. Bp: 39.8°, lel: 15.5% in O₂, uel: 66.4% in O₂, fp: +96.7°, d. 1.326 @ 20°/4°, autoign temp: 1159°F, vap press: 380 mm @ 22°, vap d: 2.93, refr index: 1.424 @ 20 L. Sol in water; mise with alc, acetone, chloroform, ether, and carbon tetrachloride.

SYNS: ABROTHENE MM O CHLORURE de METH-YLÉNE (PRENCH) II DOM III DICHLOROMETHANE (MAR. DOT) II FREON 30 III METHANE DICHLORIDE III METHYLENE DICHLOREN (POLISH) III NOI-GEORGE III RETYLENU CHLOREN (POLISH) III NOI-GEORGE III RESOLUTENINE

CONSENSUS REPORTS: NTP 7th Annual Report On Carcinogens. IARC Cancer Review: Group 1B IMEMDT 7.194.8"; Human Inadequate Evidence IMEMDT 41, 43,86; Animal Sufficient Evidence IMEMDT 41.43.86; Animal Inadequate Evidence IMEMDT 20,449,79. NTP Carcinogenesis Studies (inhalation): Clear Evidence: mouse, cat NTPTR* NTP-TR-306,86. Reported in EPA TSCA Inventory, EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: (Proposed: STEL 126 ppm, 15

ACGIH TLV: TWA 50 ppm, Suspected Human Carcinogen

DFG MAK: 100 ppm (360 mg/m³); BAT: 5% CO-Hb in blood at end of shift; Suspected Carcinogen

NIOSH REL: (Methylene Chloride) Reduce to Inwest feasible level

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and tumorigenic data. Poison by intravenous route. Moderately toxic by ingestion, subcutaneous,

M

754 MJP750 2,4'-METHYLENEDIANILINE

and intraperitoneal routes. Mildly toxic by inhalation. Human systemic effects by ingestion and inhalation: paresthesia, somnolence, altered sleep time, convulsions, euphoria, and change in cardiac rate. An experimental teratogen. Experimental reproductive effects. An eye and severe skin irritant. Human mutation data reported. It is flammable in the range of 12-19% in air but ignition is difficult. It will not form explosive mixtures with air at ordinary temperatures. Mixtures in air with methanol vapor are flammable. It will form explosive mixtures with an atmosphere having a high oxygen content, in liquid O2, N3O3, K, Na. NaK. Explosive in the form of vapor when exposed to heat or flame. Reacts violently with Li, NaK, potassium-tert-butoxide. (KOH + Nmethyl-N-nitrosourea). It can be decomposed by contact with hot surfaces and open flame, and then yield toxic fumes that are irritating and give warning of their presence. When heated to decomposition it emits highly toxic fumes of phosgene and Cl. See also CHLORINATED HYDROCARBONS, AL-IPHATIC.

CAS:1208-52-2 MJP750 2,4'-METHYLENEDIANILINE

mw; 198.29 $mf: C_{i}H_{i}N_{i}$

PROP: Leaflets from C,H, Mp: 88-89°, bp: 222° @ 9 mm.

HR: 3

HR: 3

SYNS: Phiristaninophenylimethane D 23' DIAMINODIPHENYLMETHAN (GERMAN) [0.0'-DIAMINOD'FHENYLMETHANE [] 2.4' DIAMINODI-PHENYLMETHANE I 14'-DIPHENYLMETHANE DIAMINE C 2.4'-METHYLENEBIS(ANILINE)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen. Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen. Moderately toxic by subcutaneous route. When heated to decomposition it emits toxic fumes of NO.

MJODON CAS:101-77-9 4,4'-METHYLENEDIANILINE

DOT: UN 2651

mf: C₁₃H₁₂N₂ mw: 198.29

from benzene; faint amine-like odor. Mp: 93°, flash p: 440°F, bp: 232° @ 9 mm.

SYNS: 4-(4-AMINOBENZYLIANILINE - ANCAMINE TL I ARALDITE HARDSNER 972 I BENZENAMINE. """ METHYLENEBIS | BIS-p-AMINOFENYLMETHAN ☐ BIS(p-AMINOPHENYL)METHANE ☐ BIS(4-AMINO-PHENYL) METHANE CI CURITHANE CI DADPM CI DAPM II DDM I p.p'-DIAMINODIFENYLMETHAY II 4. 4' DIAMINODIPHENYLMETHAN II DIAMINODIPHENYL METHANE II p.p'-DIAMINODIPHENYLMETHANE II 4. 4' DIAMINODIPHENYLMETHANE I 4.4'-DIAMINODI-PHENYLMETHANE (DOT) IT DI-/4-AMINOPHENYL) METHANE I DIANILINOMETHANE I 44' DIPHENYL METHANEDIAMINE I EPICURE DOM I EPIKURE DDM II HT 972 II JEFFAMINE AP-20 I MDA II METH-YLENEBIS: ANILINE) (I) 4.5 METHYLENEBISANILINE (I) HAT METHYLENEBIS(BENZENEAMINE) D METHYLENE-DIANILINE II p.p'-METHYLENEDIANILINE II +.+-METHYLENEDIANILINE (ACGIH) II SUMICURE M II

CONSENSUS REPORTS: NTP 7th Annual Report On Carcinogens, IARC Cancer Review: Group 2B IMEMDT 7.56.87; Animal Sufficient Evidence IMEMDT 39.347.86; Animal Inadequate Evidence IMEMDT, 4.79. 74. Community Right-To-Know List. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 0.1 ppm (skin); Suspected Human Carcinogen DFG MAK: Animal Carcinogen, Suspected Human Carcinogen DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Human poison by ingestion. Poison by subcutaneous and intraperitoneal routes. Human systemic effects by ingestion: rigidity, jaundice, other liver changes. An eye itritant. Mutation data reported. It is not rapidly absorbed through the skin. Combustible when exposed to heat or flame. When heated to decomposition it emits highly toxic fumes of aniline and NO.

CAS:13552-44-8 MJQ100 HR: 3 4,4'-METHYLENEDIANILINE DIHYDRO-CHLORIDE

mf: ChH, N. · 2ClH

mw: 271.21

SYNS: BENZENAMINE, 4.4 METHYLENEBIS. DIHY-DROCHLORIDE I p.p' METHYLENEDIANILINE DIHY-DROCHLORIDE I NCI-CS-604

CONSENSUS REPORTS: NTP 7th Annual PROP: Tan flakes, lumps, or pearly leaflets Report On Carcinogens. IARC Cancer

902 PCF275 PERCHLOROETHYLENE

PCF275 CAS:127-18-4 HR PERCHLOROETHYLENE

DOT: UN 1897

mf: C₂Cl₁ mw: 165.82

PROP: Colorless liquid, chloroform-like odor, Mp: -23.35°, fp: -22.35°, bp: 121.20°, d: 1.6311 @ 15°/4°, vap press: 15.8 mm @ 22°, vap d: 5.83.

SYNS: ANKILOSTIN D ANTISOL I D CARBON BI-CHLORIDE CARBON DICHLORIDE CZTERO-CHLOROSTYLEN (POLISH) II DIDAKENS II DOW-PER II ENT 1,860 II ETHYLENE TETRACHLORIDE II PEDAL-UN □ NCI-C04580 □ NEMA □ PERAWIN □ PERCHLOORETHYLEEN, PER (DUTCH) I PERCHLOR 🖂 PERCHLORAETHYLEN, PER (GERMAN) 🗖 PER-CHLORETHYLENE C. PERCHLORETHYLENE, PER (FRENCH) I PERCLENE I PERCLOROETHENE (ITAL IAN) I PERCONOLVE I PERK I PERKLONE I PER-SEC IN RORA WASTE NUMBER UND IN TETLEM IN TET-RACAP I TETRACHLOORETHEEN (DUTCH) I TETRACHLORAETHEN (GERMAN) I TETRACHLO-ROETHENE T TETRACHLOROETHYLENE (DOT) T 1.1.2.2 TETRACHLOROETHYLENE D TETRACLOROetene (Italian) il tetraleno Il tetralen II TETRACEC I TETROGUER I TETROPIL

CONSENSUS REPORTS: NTP Th Annual Report On Carcinogens. IARC Cancer Review: Group 2B IMEMDT 7,355,87; Animal Limited Evidence IMEMDT 20,491, 79. NCI Carcinogenesis Bioassay (gavage): Clear Evidence: mouse NCITR* NCI-CG-TR-13,77 (inhalation); Clear Evidence: mouse, rat NTPTR* NTP-TR-311,86 (gavage); Inadequate Studies: rat NCITR* NCI-CG-TR-13,77, Reported in EPA TSCA Inventory. EPA Generic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 25 ppm ACGIH TLV: TWA 50 ppm; STEL 200 ppm (Proposed: TWA 25 ppm; Animal Carcinogen); BEI: 7 mg/L trichloroacetic acid in urine at end of work week

DFG MAK: 50 ppm (345 mg/m³); BAT: blood 100 μg/dL

NIOSH REL: (Terrachloroethylene) Minimize workplace exposure

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and teratogenic data. Experimental poison by intravenous route. Moderately toxic to humans by inhalation, with the following effects: local anesthetic, conjuncti-

va irritation, general anesthesia, hallucinations, distorted perceptions, coma, and pulmonary changes. Moderately experimentally toxic by ingestion, inhalation, intraperitoneal, and subcutaneous routes. An experimental teratogen. Experimental reproductive effects. Human mutation data reported. An eye and severe skin irritant. The liquid can cause injuries to the eyes; however, with proper precautions it can be handled safely. The symptoms of acute intoxication from this material are the result of its effects upon the nervous system. Can cause dermatitis, particularly after repeated or prolonged contact with the skin. Irritates the gastrointestinal tract upon ingestion. It may be handled in the presence or absence of air, water, and light with any of the common construction materials at temperatures up to 140°. This material is extremely stable and resists hydrolysis. A common air contaminant. Reacts violently under the proper conditions with Ba. Be. Li, N.O., metals, NaOH, When heated to decomposition it emits highly toxic fumes of Cir. See also CHLORINATED HYDRO-CARBONS, ALIPHATIC.

PCF300 CAS:594-42-3 HR: 3 PERCHLOROMETHYL MERCAPTAN

DOT: UN 1670

mf: CCl₃S mw: 185.87

PROP: Yellow, oily liquid. Bp: slt decomp @ 149°, d: 1.700 @ 20°, vap d: 6.414.

SYNS: CLAIRSIT I MERCAPTAN METHYLIQUE
PERCHLORE (FRENCH) ID PCM ID PERCHLORMETHYL
MERKAPTAN (CZECH) ID RCRA WISTE NUMBER PILB
LI TRICHLOROMETHANE SULFENYL CHLORIDE ID TRICHLOROMETHYLSULFENYL CHLORIDE ID TRICHLOROMETHYLSULFHENYL CHLORIDE ID TRICHLOROMETHYLSULFHENYL CHLORIDE

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.1 ppm ACGIH TLV: TWA 0.1 ppm

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Poison by Ingestion, inhalation, and intravenous routes. A severe skin, eye, and mucous membrane irritant. When heated to decomposition it emits very toxic fumes of Cl⁻ and SQ, See also MER-CAPTANS. YDRIDE

J Na₂O₃ See also

19-7

te to brownishreating into Na 1 H.O. NaOH + 0.9.

eported in EPA

Label: Danger-

er ignites sponwhen exposed osive reac-- ethyl-. dimethyl sulfe. Ignition or Iformamide tapropropionale. thle with acetydogens, sulfur, unsuitable, use

The commerces of sodium. n it emits toxic DRIDES.

HR: 3 IDE

rless rhombosol in water to

DRIDE T SOME J HYDROGEN

orted in EPA

 \mathbf{m}_i

bel: Corrosive

Il is very toxic

tion of dust may cause irritation to respiretory tract. Skin contact may result in irritation and ulceration; eye contact may cause burns. To fight fire, use water, foam, CO, dry chemicals. When heated to decomposition it emits toxic fumes of F and Na O. See also FLUORIDES and HYDROFLUORIC ACID. SHROOD CAS:16721-80-5 HR: 3

to humans by ingestion; between 1 rea-

spoonful and I ounce may be faral. Inhala-

SODIUM HYDROSULFIDE

DOT: UN 2518/NA 2922/NA 2949 mf: HNaS mw: 56,06

PROP: Coloriess hexagonal crystals, Undergoes hexagonal to cubic transition. Mp: 350° Very sol in HO: sol in EtOH.

SYNS: SOMEWHISTERDE T SOME MITTERGETY SULFIDE " SODIL M HYDROSPIEDE, Solution (NA $29220 \cdot \mathrm{DOP} = \mathrm{SODH} \ \mathrm{MIIYOROSCLEDF}, \ \mathrm{with} \approx 25^\circ$. water of co-suffization (4/8/248) (DOP) (1/804)th Mary DROSI LPIDE, with not 5.25 $^\circ$ water of crostalization (1 \times 2990 (1901) . SOUR MARKAPEAN SOUR MARK CAPTIDE L SODIUM SPILIDIYORATE

CONSENSUS REPORTS: Reported in EPA ISCA Inventory,

DOT CLASSIFICATION: 8: Label: Corrosive, Poison (NA 2922): DOT Class: 4.2: Label: Spontaneously Combustible (UN 2318): DOT Class: St. Label. Corrosive (UN 2949)

SAFETY PROFILE: Poison by intraperitoneal and subcutaneous routes. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. Flammable when exposed to heat or flame. Spontaneous combustion. Reacts violently with diazonium salts. Readily yields H.S. When heated to decomposition it emits toxic fumes of SQ. and Na O. See also SULFIDES and MERCAP-TANS

SHR500 CAS:7775-14-6 HR: 3 SODIUM HYDROSULPHITE

DOT: UN 1384

mf: O.S. (2Na) mw: 1"+.10

PROP: White, colorless, or yellow-white crystals, Mp. >300°. Decomp in water (hot): sitly sol in cold water; insol in acids,

SYNS: D-OX I INDROLLS I K-BRITE I REDUC $\text{MORE} \subseteq \text{TOO}$ stronitid mage $\subseteq \text{SRO}$ HYDROSULFITE (DOT). II GODHIM SULFOXYLATE. II VATROLITE IN VIBRITE IN VIRGIEM IN VIRTEX CC. IN VIRTEX D I VIRTEX L I VIRTEX RD .

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 4.2; Label: Spontaneously Combustible

SAFETY PROFILE: Toxic and an irritant. An allergen. Flammable when exposed to heat or flame. Ignites on condict with water or sodium chlorite. Decomposes violently when heated to 190°C and emits toxic fumes of SO, and Na₂O.

CAS:1310-73-2 HR: 3 SHS000 SODIUM HYDROXIDE

DOT: UN 1823/UN 1824 mw: 40.00 mi: HNaO

PROP: White, pieces, lumps, sticks or deliquescent, orthorhombic powder. Undergoes polymorphic transition at 2°. Readily reacts with arm CO forming Na.CO., Mp. 323°, bp. 1390°, d: 2.120 @ 20° 4°, vap press: I min @ 739°. Very sol in water and alc: insol in Et.O. Me_iCO.

SYNS: CAUSTIC SODA II CAUSTIC SODA, bead (DOT) I CAUSTIC SODA, Jry (DOT) I CAUSTIC SODA, dake (DOT) I CAUSTIC SODA, granular (DOT) 🖂 CAUSTIC SODA, laquid (DOT) 🚍 CAUSTIC SODA, sol. 👙 ad (GOT) T CAI STIC SODA, solution (DOT) T HY DROXYDE de SODH'M (FRÊNCIO) Z. LEWIS-RED DEVIL INE TILYE (DOT) TO NATRIC MILYDROXID (GERMAN) I NATRIUMHYDROXYDE (DUTCH) II SODA IYE II SODIO(IDROSSIDO GI) (ITALIAN) \square SODIUM HY-DRATE (DOT) T SODIUM HYDROXIDE head (DOT) Z SODIUM HYDROXIDE dis (DOT), Z SODIUM HY DRONIDE, Pake (DOP) I SODIUM HYDRONIDE, granular (COT) □ SODICM INTEROXIDE, solid (DOT) □ SO-DHIM - HYDROXVDE det (FRENCH) 🗆 WHITE CAUSTIC

CONSENSUS REPORTS: Reported in EPA TSCA Inventory, EPA Generic Toxicology Program.

OSHA PEL; CL 2 mg/m' ACGIH TLV: CL 2 mg/m' DFG MAK: 2 mg/m⁴

NIOSH REL: (Sodium Hydroxide) CL 2 mg/m'/15M DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. Mutation data reported. A corrosive irritant to skin, eyes, and mucous membranes. This

mater: marké rissue ulcera pors. small ly ca: tissue to the with : perfor dust . to the tissue expos vary .

memr \mathbf{A} manı. handl emits

SHS5 SODIL DOT: mf: F PROF

liquic. SYNS SODA HYDRE Doil

CONS TSC.A List.

DOT

SAFE route tion skin. heate of S.

SHUD SODIL mf: C CONS comp' Knon.

OSHA

4-CHLORO-o-TOLUIDINE CLK220 283

idamage to lung with the eyes can be liquid is not ely removed. It surns due to its pon ingestion it shagus, and stomit on contact with cause conjunction. If spilled on a

inated clothing, with copious by a baking soda warm water for ysician. Decomact with water, e reaction with ently with many id water, use dry lecomposition it SQ. See SULFU-

295,73

comp). Sol in

HR: 2

☐ 6-CHLORO-2H-1,
41DE 1,1-DIOX1,2,4-BENZOTHIAHAZID ☐ CHLORRIT ☐
DIURESAL ☐ DIUTRID ☐ FLUHSAN ☐ SALG-CHLOROJ WARDUZIDE

orted in EPA ic Toxicology

toxic by intraoutes. Mildly ital reproduced in aplastic position it and Cl-.

CLJ750 CAS:2812-73-9 HR: 3 CHLOROTHIOFORMIC ACID ETHYL ES-TER

DOT: UN 2826

mf: C,H,ClOS

mw: 124.59

PROP: 8p: 52-55° @ 40 mm.

SYN: ETHYL CHLOROTHIOFORMATE (DOT)

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: Probably a poison by inhalation and ingestion. A corrosive irritant to skin, eyes, and mucous membranes. See also ESTERS and CHLORIDES. Fiammable when exposed to heat or flame. When heated to decomposition it emits very toxic fumes of CI and SQ.

CLK100 CAS:95-49-8 HR: 3 o-CHLOROTOLUENE

DOT: UN 2238

mf: C.H.Cl mw: 126.59

PROP: Liquid. Mp: -34°, bp: 159°, d: 1.08 @ 20°/4°. Volatile with steam. Sitly sol in water; freely sol in alc, benzene, chloroform, ether.

SYNS: 2-CHLORO-1 METHYLBENZENE (9CI) II 2-CHLOROTOLUENE II HALSO 99 II 1-METHYL-2-CHLOROBENZENE II 0-TOL-YL CHLORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 50 ppm ACGIH TLV: TWA 50 ppm DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by unspecified routes. Flammable when exposed to heat or flame. When heated to decomposition it emits toxic fumes of Cl⁻. See also TOLYL CHLORIDE and CHLORINATED HYDROCARBONS, AROMATIC.

CLK130 CAS:25168-05-2 HR: 3 CHLOROTOLUENES

DOT: UN 2238

mf: C-H-Cl mw: 126.59

SYNS: GENZENE, CHLOROMETHYL-(9CI) CHLO-ROMETHYLBENZENE CHLOROTOWENE CO-CHLOROTOLYENE CHLORO-CHLOROTOLYENE CHLORO- CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Low toxicity by inhalation. A flammable liquid. When heated to decomposition it emits toxic vapors of CIT.

CLK220 CAS:95-69-2 HR: 3 4-CHLORO-o-TOLUIDINE

mf: C,H,ClN mw: 141.61

PROP: Leaflets from EtOH. Mp: 29-30°, bp: 236-238° @ 730 mm.

SYNS: AMARTHOL FAST RED TR BASE C 2-AMINO-5. CHLOROTOLUENE I AZOENE FAST RED TR BASE II AZOGENE FAST RED TR [] AZOIC DIAZO COMPONENT 11 BASE Q DRENTAMINE FAST RED TR BASE Q 5-CHLORO-2-AMINOTOLUENE - 4-CHLORO-2-METHYLA-NILINE I 4-CHLORO-G-METHYLANILINE I 4-CHLORO-2-METHYLBENZENEAMINE Q 4-CHLORO-2-TOLUI-DINE C DAJTO RED BASE TR C DEVAL RED K C DE-VAL RED TR II DIAZO FAST RED TRA II FAST RED BASE TR 🛛 FAST RED SOT BASE 🗆 FAST RED TR 🗍 FAST RED TRIL T PAST RED TR BASE T FAST RED TRO BASE 🗆 KAKO RED TR BASE 🗀 KAMBAMINE RED TH 🗆 2-METHYL-4-CHLOROANILINE 🗅 MITSUI RED TR BASE D RED BASE CIBA IX D RED BASE IRGA IX D RED BASE NTR I RED TR BASE I SANYO FAST RED TR BASE CI TULABASE FAST RED TR

CONSENSUS REPORTS: IARC Cancer Review: Group 2A IMEMDT 7,56,87; Human Inadequate Evidence IMEMDT 16,277,78; Animal Sufficient Evidence IMEMDT 30,61, 83. Reported in EPA TSCA Inventory.

DFG MAK: Human Carcinogen DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: Confirmed carcinogen. Poison by ingestion and subcuraneous routes. Human mutation data reported. In the presence of copper(II) chloride catalyst decomposition occurs above 239°C. When heated to decomposition it emits toxic fumes of Cl⁻ and NO. See also other chloro toluidine entries.

C



2-BIPHENY

.raperironeal ely toxic by ogen. Other ts. A human itant. Quesnental carcii. Combustiame. It can 'o fight fire. heated to smoke and

BFX500 CAS:103-29-7 HR: 3 BIBENZYL

 $mf: C_{i_1}H_{i_2}$ mw: 182.28

PROP: Flash p: 26+°F, autoign temp: 896°F, d: 1.0, vap d: 6.29, bp: 284°, mp: 52°.

SYNS: DIBENZYL (1) 1.2-DIPHENYLETHANE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intraperitoneal route. Combustible. To fight fire, use water, spray, mist, alcohol foam, dry chemical, When heated to decomposition it emits acrid smoke and fumes.

HR: 3

IS-ACET-

BIPHENYLY-

Cancer

,87; Animal

16,293,78.

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INCHIPHE.

BGA750 CAS:1464-53-5 HR: 3 1,1'-BI(ETHYLENE OXIDE) $M_{i} \subset H_{i} \cap H_{i}$ mw: 86.10

PROP: Colorless liquid. Bp: 142°, mp: 19°, d:

1.113 @ 18"/+".

SYNS: BIONIRANE II 111' BIONIRANE II BUTA. SQUYOGSIQ SUSIGNATUR IN (NAMES DI GYZO) GUZOCUSIQ 🗆 1.3-BUTADIENE DIEPOXIDE 🗆 BUTADIENE DIOX IDE I BUTANE DIEPONIDE II DER I DIEPONYBU-TANE \square 2.4-DIEPOXYBUTANE \square 1.2.3.4-DIEPOXYBU. TANE C DIONYBUTADIENE C ENT 26,592 C ENYTHRITOLANIIVORIDE II RORA WASTE NUMBER

CONSENSUS REPORTS: NTP 7th Annual Report On Carcinogens. EPA Extremely Hazardous Substances List. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

HR: 2

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Poison by ingestion, inhalation, skin contact, and intraperitoneal routes. Human mutation data reported. A severe skin and eye irritant. When heated to decomposition it emits actid smoke and irritating fumes.

CID El 48' CID G 4.4'-CID G 3.3'-YNODWUKA-

BGEOOD BIPHENYL

CAS:92-52-4

HR: 3

ed in EPA

mf: C,2H,,

mw: 154.22

tarcinogen lata. Mutacom-

PROP: Monoclinic, white scales, with a pleasant odor. Mp: 71°, bp: 255°, flash p: 235°F (CC), d: 0.991 @ 75°/4°, autoign remp: 1004°F, vap d: 5.31, lel: 0.6% @ 232°, uel: 5.8% @ 331°F.

SYNS: BIBENZENE 🗆 LU-BIPHENYL 🗘 DIPHENYL (OSHA) I LEMONENE I PHENADOR-X I PHENYL-DIANAX C HOMO C ANAXIAB

CONSENSUS REPORTS: EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory. Community Right To Know List.

OSHA PEL: TWA 0.2 ppm ACGIH TLV: TWA 0.2 ppm DFG MAK: $0.2 \text{ ppm} (1 \text{ mg/m}^3)$

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion. A powerful irritant by inhalation in humans. Human systemic effects by inhalation of very small amounts: flaccid paralysis, nausea or vomiting, and other unspecified gastrointestinal effects. Questionable carcinogen with experimental tumorigenic and neoplastigenic data. Mutation data reported. Combustible when exposed to heat or flame; can react with oxidizing materials. To fight fire, use CO, dry chemical, water spray, mist, fog. When heated to decomposition it emits acrid smoke and fumes.

BGJ250 CAS:90-43-7 HR: 3 2-BIPHENYLOL

mf: CuH, O mw: 170.22

PROP: Needles from pet ether. Mp: 56*, bp:

SYNS: 6-BIPHENYLOL II (1,1'-BIPHENYL'-2-QL II 6-DIPHENYLOL [] DOWCIDE I [] DOWCIDE I ANTIMI-CROBIAL [] 2-HYDROXYDITENYL (GZECH) [] c-HY-DROXYBIPHENYL I 2-HYDROXYBIPHENYL I 0-HY-DROXYDIPHENYL 🗆 2-HYDROXYDIPHENYL 🗀 KIWI LUSTR 277 D NCI-C50351 D OPP C ORTHOHYDROX-YDIPHENYL I ORTHOPHENYLPHENOL I ORTHOXE-NOL C G-PHENYLPHENOL C 2-PHENYLPHENOL C PREVENTOL O EXTRA 🗆 REMOL TRE 🗀 TETROSIN OE II TORSITE II TUMESCAL OPE II USAF EK-2219 ☐ o-XENOL

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 30,329,83; NTP Carcinogenesis Studies (dermal); No Evidence: mouse NTPTR* NTP-TR-301,86. Reported in EPA TSCA Inventory. On Community Right-To-Know List.

SAFETY PROFILE: A poison by intraperitoneal route. Moderately toxic by ingestion and possibly other routes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. Se-

vere eye tionable. nogenic decompo irritating

BGJ500 4-BIPHEN mf: CnH.

PROP: N Mp: 164_

SYNS: p.: NYL I p.Hh NYL II PAR YLPHENOL

CONSEN: TSCA Inv

SAFETY peritonea with expe genic data emits acr

BGJ750 2-BIPHEN mf: C₂H₄:

SYNS: BA SALT D D.C DÓWIÇIDE / A 🗆 2-HYDF DROXYDIPH SODIUM SAL TRIPHENE I I PHENOL -PHENOL SO ALT 🗆 r TRA 🖸 SOD. BIPHENYL)-1 □ sobium : PHENYLPHE: SODIUM 2-PI YLPHENOL -UM o.PHENY

CONSENS Review: G Limited Reported

□ TOPANÉ

SAFETY with exp∈ genic, an

SULFURIC ACID SCI500 1097

HORING SUL-IOSULFUR DI-SULFUR CHLO-

ported in EPA

tant and corrois membranes, hear or flame, C. Na. acerone, idants, metals, tino lithium, atter or steam, a it emits very

5 HR: 3

le gas or liqdor. Catalytip: — 5 5°, bp: ap d: 2.26+ @

IQUID □ FER-CYD (GERMAN) LFUROUS ACID E □ SULFU-PHUR DIOX

Extremely offed in EPA Toxicology

5 ppm 5 ppm

WA 0.5 ppm 'bel: Poison

Experimenn mutation effects by resistance, pulmonary in with exteratogenic respiratory e edema of the lungs or glonts, and can produce respiratory paralysis. A corrosive irritant to eyes, skin, and mucous membranes. This material is so irritating that it provides its own warning of toxic concentration. Levels of 400–500 ppm are immediately dangerous to life. Its toxicity is comparable to that of hydrogen chloride. However, less than fatal concentration can be borne for fair periods of time with no apparent permanent damage. It is a common air contaminant.

A nonflammable gas. It reacts violently with acrolein. Al, CsHC₂, Cs₂O₃, chlorates, ClF₄, Cr. FeO, F₂, Mn, KHC₂, KClO₄, Rb₂C₃, Na, Na₂C₄, SnO₅, diamminolithiumacetylene carbide. Will react with water or steam to produce toxic and corrosive fumes. Incompatible with halogens or interhalogens, lithium nitrate, metal acetylides, metal oxides, metals, polymeric tubing, potassium chlorate, sodium hydride.

SOI000 CAS:2551-62-4 HR: 1 SULFUR HEXAFLUORIDE

DOT: UN 1080

mf: F₃S mw: 146.06

PROP: Colorless, odorless gas of high chemical stability and inertness. Nonflammable. White sublimable solid at low temps. Stable to H₂O and to glass. Mp: -51° (subl @ -64°), vap d: 6.602. d (liquid): 1.67 @ -100°. Very insol in H₂O: slightly sol in EtOH.

SYNS: HENAFLI'ORURE de SOUFRE (FRENCH) D' SULFUR FLUORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1000 ppm ACGIH TLV: TWA 1000 ppm DFG MAK: 1000 ppm (6000 mg/m') DOT CLASSIFICATION: 2.2: Label: Nonflammable Gas

SAFETY PROFILE: This material is chemical ly inert in the pure state and is considered to be physiologically inert as well. However, as it is ordinarily obtainable, it can contain variable quantities of the low-sulfur fluotides. Some of these are toxic, very reactive chemically, and cortosive in nature. These materials can hydrolyze on contact with water to yield hydrogen fluoride, which is highly toxic and very corrosive. In high

concentrations and when pure it may act as a simple asphyxiant. Incompatible with disilane. Vigorous reaction with disilane. May explode. When heated to decomposition emits highly toxic fumes of F and SO_e.

SOI500 CAS:7664-93-9 HR: 3 SULFURIC ACID

DOT: UN 1830/UN 1832 mf: H₂O₃S mw: 98.08

PROP: Viscous, tolorless oily liquid; odorless. Mp: 10.49°, d: 1.834, vap press: 1 mm @ 145.8°, bp: 290°, decomp @ 540°, Misc with water and alc (liberating great heat).

SYNS: ACIDE SULFURIQUE (FRENCH) IN ACIDO SOLFORICO (ITALIAN) IN BOY IN DIPPING ACID IN HYDROOT IN MATTING ACID (DOT) IN NORDHAUSEN ACID (DOT) IN ORDHAUSEN ACID (DOT) IN SCHWEFEL SAEURELOESUNGEN (GERMAN) IN SPENT SULFURIUM ACID (DOT) IN SULPHURIC ACID IN VITRIOL BROWN OIL IN VITRIOL OIL OF (DOT) IN ZWAVELZUUROPLOSSINGEN (DUTCH)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 1 mg/m' ACGIH TLV: TWA 1 mg/m'; STEL 3 ppm DFG MAK: 1 mg/m' NIOSH REL: (Sulfuric Acid) TWA 1 mg/m'

DOT CLASSIFICATION: 8; Label: Corrosive SAFETY PROFILE: Human poison by unspecified route. Experimental poison by inhalation. Moderately toxic by ingestion. A severe eye irritant. Extremely irritating, corrosive, and toxic to tissue, resulting in rapid destruction of tissue, causing severe burns. If much of the skin is involved, exposure is accompanied by shock, collapse, and symptoms similar to those seen in severe burns. Repeated contact with dilute solutions can cause a dermatitis, and repeated or prolonged inhalation of a mist of sulfuric acid can cause inflammation of the upper respiratory tract. leading to chronic bronchitis. Sensitivity to sulfuric acid or its mists or vapors varies with individuals. Normally 0.125-0.50 ppm may be mildly annoying, 1.5-2.5 ppm can be definitely unpleasant, and 10-20 ppm is unbearable. Workers exposed to low concentrations of the vapor gradually lose their sensitivity to its irritating action. Inhalation of concentrated vapor or mists from hot acid or oleum can cause rapid loss of con-

S

1098 SOI520 SULFURIC ACID, furning

sciousness with serious damage to lung tissue. Severe exposure may cause a chemical pneumonitis; erosion of the teeth due to exposure to strong acid fumes has been recognized in industry. An experimental teratogen.

This is a very powerful acidic oxidizer that can ignite or explode on contact with many materials. When heated it emits highly toxic fumes; will react with water or steam to produce heat; can react with oxidizing or reducing materials. When heated to decomposition it emits toxic fumes of SQ. See also SULFATES.

SOI520 CAS:8014-95-7 HR: 3 SULFURIC ACID, furning

DOT: NA 1831

mf: H₂O₄S-O₄S mw: 178.14

PROP: Heavy, furning, yellow liquid. H.SO, + up to 80% SO. A solution of sulfuric anhydride (sulfur trioxide) in anhydrous sulfuric acid (NTIS** P8233-098).

SYNS: DISULPHURIC ACID [] DITHIONIC ACID [] FUMING SUEFURIC ACID [] OLEUM [] PYROSULPHURIC ACID [] SULFURIC ACID, fuming > or -30% free sulfur thioxide (DOT) [] SULFURIC ACID, fuming <30% free sulfur thoxide (DOT) [] SULFURIC ACID MIXTURE with SULFUR TRIOXIDE

GONSENSUS REPORTS: IARC Cancer Review: Group 1 IMEMDT 54.41,92: Human Sufficient Evidence IMEMDT 54,41,92.

NIOSH REL: TWA I mg/m² DOT CLASSIFICATION: 8; *Label*: Corrosive: DOT Class: 8; *Label*: Corrosive, Poison

SAFETY PROFILE: Confirmed human carcinogen. A poison. Moderately toxic by inhalation. A corrosive irritant to skin, eyes, and mucous membranes. A very dangerous fire hazard by chemical reaction with reducing agents and carbohydrates. A severe explosion hazard by chemical reaction with acetic acid, acetic anhydride, acetonittile, actolein, acrylic acid, acrylonitrile, allyl alcohol, allyl chloride, 2 amino ethanol, NH,OH, aniline, cresol, n-butyraldehyde, cumene, dichloroethyl ether, diethylene glycol monomethyl ether, diisoburyiene, epichlorohydrin, ethyl acetate, ethylene cyanohydrin, ethylene diamine, ethylene glycol, ethylene glycol monoethyl ether acetate, ethylene imine, glyoxal, HCl, HF, isoprene, isopropyl alcohol,

mesityl oxide, methyl ethyl ketone, HNO., 2-nitropropane, \$\beta\$-propiolacetone, propylene oxide, pyridine, NaOH, styrene monomer, vinylidene chloride, sulfolane, vinyl acetate. Will react with water or steam to produce heat and toxic and corrosive fumes. Can react vigorously with reducing materials. When heated to decomposition it emits highly toxic fumes of SQ. See also SULFUROUS ACID.

SOI530 CAS:7664-93-9 HR: 3 SULFURIC ACID (mist)

mf: H₂O₃5 mw: 98.08

PROP: The airborne form of sulfuric acid is an aerosol of droplets of varying diameter of aq sulfuric acid solution.

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Reported in EPA TSCA Inventory.

ACGIH TLV: TWA 1 mg/m'
NIOSH REL: TWA 1 mg/m'

SAFETY PROFILE: Poison by inhalation. Human systemic effects by inhalation: mouth effects. When heated to decomposition it emits toxic fumes of SQ, See also SULFURIC ACID.

SON510 CAS:10025-87-9 HR: 3 SULFUR MONOCHLORIDE

mf: Cl₂S₂ mw: 135.02

PROP: Amber to yellowish-red, oily, fuming liquid; penetrating odor. Hydrolyzes to HCl + SO₁ + H₂S. Mp: -77°, hp: 138.0°, flash p: 245° F (CC), d: 1.6885 @ 15.5°/15.5°, autoign temp: 453° F, vap press: 10 mm @ 27.5°, vap d: 4.66. Decomp in water. Sol in CS₁ and org solvs

SYNS: CHLORIDE of SULFUR (DOT) [] DISULPUR DICHLORIDE [] SIAKEI CHLOREK (POLISH) [] SULFUR CHLORIDE [] SULFUR CHLORIDE (DI) (DOT) [] SULFUR SUBCILLORIDE [] THIOSULFUROUS DICHLORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 1 ppm ACGIH TLV: CL 1 ppm DFG MAK: 1 ppm (6 mg/m²)

NIOSH REL: (Sulfur Monochloride) CL 1

maa

4 AAT250 ACETIC ACID

GONSENSUS REPORTS: Reported in EPA TSCA Inventory, EPA Genetic Toxicology Program.

SAFETY PROFILE: A human poison by an unspecified route. Poison by ingestion and intravenous routes. Moderately toxic by intraperitoneal route. Human systemic effects by ingestion: hallucinations and distorted perceptions, sleepiness, constipation, cyanosis, respiratory stimulation, kidney damage, methemoglobinemia-carboxyhemoglobinemia, and decreased body temperature. Mutation data reported. When heated to decomposition it emits toxic fumes of NQ, Combustible when exposed to heat or flame. See also ANILINE.

AAT250 CAS:64-19-7 HR: 3 ACETIC ACID

DOT: UN 2789/UN 2790 inf: C₂H₂O₂ mw: 60.06

PROP: Clear, colorless liquid: pungent odor. Mp. 16.7°, bp: 118.1°, flash p. 109°F (CC), lel: 5.4%, uel: 16.0% @ 212°F, d: 1.049 @ 20°/4°, autoign temp: 869°F, vap press: 11.4 mm @ 20°, vap d: 2.0°. Misc in water, alc, and eth.

SYNS: ACETIC ACH: (aqueous solution) (DOT) []
ACETIC ACID, placial or represent solution, >80% acid,
by weight (UN 2790) (DOT) [] ACETIC ACID, GLACIAL
[] ACETIC ACID solution, >10% but not >80% acid, by
weight (UN 2790) (DOT) [] ACIDE ACETIQUE
(FRENCH) [] ACIDO ACETICO (ITALIAN) [] AZUNZHIR (DUTCH) [] ESSIGNAEURE (GERMAN) [] ETHA
NOIG ACID [] ETHYLIC ACID [] FFMA No 2006 []
GLACIAL ACETIC ACID [] METHANECARBONYLIC
ACID [] OCTOWY KWAS (POLISH) [] VINECAR ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 10 ppm ACGIH TLV: TWA 10 ppm; STEL 15 ppm DFG MAK: 10 ppm (25 mg/m¹) DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A human poison by an unspecified route. Moderately toxic by various routes. A severe eye and skin irritant. Can cause burns, lachrymation, and conjunctivitis. Human systemic effects by ingestion: changes in the esophagus, ulceration of or bleeding from the small and large intestines. Human systemic irritant effects and mucous membrane irritant. Experimental reproduc-

tive effects. Mutation data reported. A flammable liquid. A fire and explosion hazard when exposed to heat or flame; can react vigorously with oxidizing materials. To fight fire, use CO₂, dry chemical, alcohol foam, foam and mist. When heated to decomposition it emits irritating fumes.

AAU000 CAS:150-84-5 HR: 1 ACETIC ACID, CITRONELLYL ESTER

-mf: $C_{12}H_{11}O_1$ mw: 198.34

PROP: Found in oils of Citronella Ceylon, geranium, and about 20 other oils (FCTXAV 11.1011."3). Colorless liquid; fruity odor. D: 0.883-0.893, refr index: 1.440-1.450, flash p: 212"F. Sol in alc and fixed oils; insol in glycerin, propylene glycol, and water @ 129".

SYNS: ACETIC ACID-3, DIMETHYL-6-OCTEN-1-YL ES TER ID CITRONELLYL ACETATE (FCC) ID 2.6-DIMETH-YL 2-OCTEN-8-OL ACETATE ID 3 T-DIMETHYL-6-OCTEN-I YL ACETATE ID FEMA No. 2311

CONSENSUS REPORTS: Reported in EPA TSGA Inventory.

SAFETY PROFILE: Mildly toxic by ingestion. A human skin irritant. See also ESTERS, Combustible liquid. When heated to decomposition it emits acrid smoke and irritating fumes.

AAU250 CAS:18461-55-7 NR: 3 ACETIC ACID-4,6-DINITRO-D-CRESYL ES-TER

mf: C₀H₀N₁O₀ mw: 240.19

SYNS: 4.6-DINITRO 6-KRESYLESTER KYSELINY OC-TOVE (CZECH) [3] DNOK-ACETAT (CZECH)

NIOSH REL: (Dinitro ortho-Cresyl) TWA 0.2 mg/m³

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A skin and severe eye irritant. When heated to decomposition it emits toxic fumes of NQ.

AAW000 CAS:56856-83-8 HR: 3 ACETIC ACID METHYLNITROSAMINOMETHYL ESTER

mf: C₄H₄N₂O₃ mw: 132.14

SYNS: 0-ACETOXY DIMETHYLNITROSAMINE D ACETOXYMETHYL-METHYL-NITROSAMIN (GERMAN) D

ACETOXYME
TOXYMETHY
N NITROSOF
MANI
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ACETOXYME

SAFETY with expe genic. and gestion, su traperitone genic data When heat furnes of 1 NITROSO

AAX250 ACETIC A mf: (C,H,c

PROP: Cle benzene, :

SYNS: ACE
MER CI ASAH

DEAKELITE

DOND CH
CEVIAN A 67H
DCA TQ D DI
1463 D FORN
NYT. E 50 Y C
MERCKOGEN
MERC D POLY
MER) D RIIC
TOABOND 4C

D VINTI, ACF
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Review:
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SAFETY F gestion. W emits acric also ESTE

AAX500 ACETIC A DOT: UN mf: C,H,O

PROP: Co fractive lic

a 018

1152 TGI100 TOBACCO PLANT

alkaloid nicotine, tars, phenols, carbon monoxide, cyanides, nitrates, nitrites, carcinogenic, co-carcinogenic and perhaps 100 other chemicals, alpha-emitters, etc. An experimental teratogen. A nicotine-containing dried leaf of the tobacco plant. Habitual inhalation of tobacco smoke is considered a leading cause of lung cancer and circulatory problems, cardiac problems, etc. Combustible when exposed to heat or flame. See also other tobacco entries, SMOKELESS TOBACCO, and NICOTINE.

TGI100 TOBACCO PLANT

HA: 3

PROP: Large annual or perennial shrubs with leaves that are often broad, hairy, and sticky. The trumper-shaped flowers are white, yellow, green-yellow, or red. The seed capsule holds many small seeds. N. tabacum is the principal commercial tobacco in the western countries. N. rustica, native to South America, is found sporadically across the United States and is the most widely cultivated tobacco in the Orient. N. longiflora is commonly cultivated as a garden ornamental. N. attenuata grows in the region bounded by Idaho, Baja California, and Texas. N. glauca is native to South America and now grows in the southwestern United States, Hawaii, Mexico, and the West Indies.

SYNS: NICOTIANA ATTENUATA © NICOTIANA GIALICA D NICOTIANA LONGIFLORA © NICOTIANA RUSTICA D NICOTIANA TABAGUM D PAKA (HAWAII) © TABACO (SPANISH)

SAFETY PHOFILE: Confirmed human carcinogen by several routes. The whole plant contains poisonous nicotine and other chemically related alkaloids. The primary alkaloid in *N. tabacum* is nicotine. The primary alkaloid in *N. glauca* is anabasine. Ingestion of any part of the plant can cause salivation, nausea, vomiting, distorted perceptions, convulsions, vasomotor collapse, and respiratory failure. Most serious poisonings result from ingestion of the leaves in salad, use of infusions as enemas, or skin absorption of alkaloids during commercial harvesting. See also SMOKELESS TOBACCO, NICOTINE, and other tobacco entries.

TGJ750 CAS:119-93-7 HR: 3 o-TOLIDINE

 $mf: C_{i_1}H_{i_2}N_{i_3}$

mw: 212.32

PROP: White to reddish crystals or leaflets. Mp: 129-131°. Very slrly sol in water, sol in alc, ether, acetic acid.

SYNS: BIANISIDINE D 4.3' BI-B-TOLUIDINE D C.I. 37230 D C.I. AZOIC DIAZO COMPONENT 113 D (4.4'-DI-DIAMINE)-3.5'-DIMETHYL(LI'-BIPHENYL) D 4.4'-DI-AMINO-3.3'-DIMETHYL(BIPHENYL D BIAMINO-3.3'-DIMETHYLDIPHENYL D DIAMINODITOLYI, D 3.3' DI-METHYLBENZIDIN D 5.3'-DIMETHYLBENZIDINE D 3.3'-DIMETHYLBENZIDINE D 3.3'-DIMETHYLBIPHENYL-4.3'-DI-METHYLBIPHENYL-4.3'-DIAMINE D 5.3'-DIMETHYL-11, I'-BIPHENYL-4.3'-DIAMINE D 5.3'-DIMETHYL-11, I'-BIPHENYL-4.3'-DI-AMINE D 4.3'-DI-METHYL-11, I'-BIPHENYL-4.3'-DI-METHYL-11, I'-BIPHENYL-4.3'-DI-MINE D 4.3'-DIMETHYL-11, I'-BIPHENYL-4.3'-DI-MINE D 4.3'-DIMETHYL-11, I'-BIPHENYL-11, I'-DI-MINE D 5.3'-DIMETHYL-11, I'-DI-MINE D 4.3'-DI-MINE D 5.3'-DIMETHYL-11, I'-DI-MINE D 4.3'-DI-MINE D 5.3'-DIMETHYL-11, I'-DI-MINE D 4.3'-DI-MINE D 5.3'-DI-MINE D 5.3'-DI-MINE

CONSENSUS REPORTS: NTP 7th Annual Report On Carcinogens. IARC Cancer Review: Group 2B IMEMOT 7,56.87; Animal Limited Evidence IMEMOT 1,87,72. EPA Genetic Toxicology Program. Community Right-To-Know List. Reported in EPA TSCA Inventory.

ACGIH TLV: Suspected Human Carcinogen DFG MAK: Animal Carcinogen. Suspected Human Carcinogen NIOSH REL: (o-Toluidine) Ct. 0.02

NIOSH REL: (o-Toluidine) CL 0.02 mg/m/60M; avoid skin contact

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic and rumorigenic dam. Poison by intraperitoneal route. Moderately toxic by ingestion. Human mutation data reported. When heated to decomposition it emits toxic fumes of NQ.

TGK750 CAS:108-88-3 HR: 3 TOLUENE

DOT: UN 1294

mf: C-H_a mw: 92.15

PROP: Colorless liquid: benzol-like odor. Mp: -95 to -94.5°, fp: -95°, bp: 110.4°, flash p: 40° F (CC), UIC: 75-80, lel: 1.27%, uel: 7%, d: 0.866 @ 20°/4°, autoign temp: 996° F, vap press: 36.7 mm @ 30°, vap d: 3.14. Insol in water; sol in acetone; misc in abs alc, ether, chloroform.

SYNS: ANTISAL IS O BENZENE, METHYL. O METHA-

TOLUENE-2,4-DIAMINE TGL750 1153

HR: 3

s or leaflets. water; sol in

JIDINE E C.I. T 113 🖂 (4.4% C) 🖾 4.4°-DI-DIAMINO 3,3% LYL [] 3.3'-101-U TAIDING D J 3.3'-D1-DIMETHYL-(1. THYL-4.4'-DI-IENYU-1.-'-DI-DARK BLUE I o-TOLIDIN (STALIAN) INE 🗆 3.3"

7th Annual RC. Cancer 5,87; Animal EPA າແຕ່ງເຽ A TSCA

Carcinogen Suspected

CL 0.02

carcinogen and tumoriineal route. uman mutato decomt NQ.

HR: 3

l·like odor. !10.4°, flash 1.27%, uel: mp: 996°F. 3.14. Insol in abs alc.

CIDE D METHANE, PHENYL- D METHYLBENZENE D METHYLDENZOL CI NCI-C07272 C PHENYLMETHANE EL RORA WASTE NUMBER U220 EL TOLIJEEN (DUTCH) D TOLLIEN (CZECII) D TOLLIOL (DOT) D TOLUOLO (ITALIAN) IT TOLU-SOL

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory, EPA Genetic Toxicology Program.

OSHA PEL: TWA 100 ppm; STEL 150 ppm ACGIH TLV: TWA 50 ppm (skin); BEI: 1 mg (toluene)/L in venous blood at end of shift; 20 ppm toluene in end-exhaled air during shift

DFG MAK: 50 ppm (190 mg/m³): BAT: 340 µg/dL in blood at end of shift.

NIOSH REL: (Toluene) TWA 100 ppm; CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by intravenous and subcummeous routes. Mildly toxic by inhalation. An experimental teratogen. Human systemic effects by inhalation: CNS recording changes, hallucinations or distorted perceptions, motor activity changes, antipsychotic, psychophysiological test changes. and bone marrow changes. Experimental reproductive effects. Mutation data reported. A human eye irritant. An experimental skin and severe eye irritant.

Toluene is derived from coal tar, and commercial grades usually contain small amounts of benzene as an impurity. Inhalation of 200 ppm of toluene for 8 hours may cause impairment of coordination and reaction time; with higher concentrations (up to 800 ppm) these effects are increased and are observed in a shorter time. In the few cases of acute toluene poisoning reported, the effect has been that of a narcotic, the workman passing through a stage of intoxication into one of coma. Recovery following removal from exposure has been the rule. An occasional report of chronic poisoning describes an anemia and leukopenia, with biopsy showing a bone marrow hypoplasia. These effects, however, are less common in people working with toluene, and they are not as severe. At 200-500 ppm, headache. nausea, eye irritation, loss of appetite, a bad taste, lassitude, impairment of coordination and reaction time are reported, but are not usually accompanied by any laboratory or

physical findings of significance. With higher concentrations, the above complaints are increased and in addition, anemia, leukopenia, and enlarged liver may be found in rare cases. A common air contaminant, emitted from modern building materials (CENEAR 69,22,91). Used in production of drugs of abuse.

Flammable liquid. A very dangerous fire hazard when exposed to heat, flame, or oxidizers. Explosive in the form of vapor when exposed to heat or flame. Explosive reaction with 1,3-dichloro-5,5-dimethyl-2,4imidazolididione, dinitrogen retraoxide, concentrated nitric acid, H2SO, + HNO, N₂O₄, AgClO₁, BrF₄, UF₅, sulfur dichloride. Forms an explosive mixture with tetranitromethane. Can react vigorously with oxidizing materials. To fight fire, use foam, CO, dry chemical. When heated to decomposition it emits actid smoke and irritating fumes.

CAS:25376-45-8 TGL500 HR: 3 TOLUENEDIAMINE

mf: C.H., N. mw: 122.19

SYNS: BENZENEDIAMINE, at-METHYL. [] DIAMINO-TOLUENE I METHYLPHENYLENEDIAMINE I RCRA WASTE NUMBER U221

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by ingestion, intraperitoneal, and intravenous routes. When heated to decomposition it emits toxic fumes of NO. See also other toluene diamine entries and AROMATIC AMINES.

CAS:95-80-7 **TGL750** TOLUENE-2,4-DIAMINE

DOT: UN 1709

mw: 122.19 mf: C-H::Na

PROP: Needles from water or prisms from alc. Mp: 99°, pp: 292°, bp: 148-150° @ 8 mm, vap press: 1 mm @ 106.5".

SYNS: 3-AMINO-P-TOLUIDINE () 5-AMINO-0-TOLUI-DINE C AZOGEN DEVELOPER H C BENZOFUR MT C C.I. 76035 D C.I. OXIDATION BASE D C.I. OXIDATION BASE 20 🖂 C.I. OXIDATION BASE 35 🔘 C.I. OXIDA-TION BASE 200 II DEVELOPER 14 II DEVELOPER B II DEVELOPER DB I DEVELOPER DBJ I DEVELOPER H ☐ DEVELOPER MC ☐ DEVELOPER WT ☐ DEVELOPER

HA: 3

THA-

m-XYLENE XHA000 1229

SYNS: XÉNON (UN 0256) (DOT) D XENON, refrigerated liquid (cryogenic liquids) (UN 2591) (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.2; Label: Non-flammable Gas

SAFETY PROFILE: An inert gas that acts as a simple asphyxiant. For a discussion of toxicity effects, see ARGON. A common air contaminant.

XGS000 XYLENE CAS:1330-20-7

XHAQQQ m-XYLENE CAS:108-38-3

HR: 3

mf: C_sH_m

HR: 3

mw: 106.18

DOG Caladaa wakila ii

PROP: Colorless, mobile liquid, Mp: -47.9°, bp: 139°, lel: 1.1%, uel: 7.0%, flash p: 77° F, d: 0.864 @ 20°/4°, vap press: 10 mm @ 28.3°, vap d: 3.66, autoign temp: 986° F. Insol in water; misc with alc, ether, and some organic solvents.

SYNS: m-DIMETHYLBENZENE I 1,3-DIMETHYLBENZENE II 1,3-XYLENE II m-XYLOL (DOT:

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 150 ppm ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: methyl hippuric acids in urine at end of shift 1.5 g/g creatinine

NIOSH REL: (Xylene) TWA 100 ppm; CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion, skin contact, and inhalation. An experimental teratogen. Human systemic effects by inhalation; motor activity changes, ataxia, and irritability. Experimental reproductive effects. A severe skin irritant. A common alr contaminant. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO., dry chemical. Emitted from modern building materials (CENEAR 69,22.91). When heated to decomposition it emits acrid smoke and irritating fumes. See also other xylene entries.

routes. Unspecifects. When hearemits very toxic t'.

1-7 HR: 3

20

(aq). Mp: 148°.

Y-T METHONY-5.

ONE C MELADI.

I METHOXAHONY-(FURANOFURO(3,2-g)
,6,7-FUROOCOUMARIN
HOXYPSORALEN
OXSORALEN CO

TP 7th Annual IARC Cancer 2+3,87; Human IDT 24,101,80; IMEMDT 24,3CA Inventory. gram.

ed carcinogen. te. Moderately aneous routes. d. When heats acrid smoke ed to treat skin

-3 HR: 1

with fluorine 12 agents. D 109°, mp: as some conjunctival irritation by instillation (adding drops to the eyes one drop at a time). Irritation can start @ 200 ppm. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits actid smoke and irritating fumes. See also other xylene entries.

XYLENE DOT: UN 1307 mf: C_nH₁₀ PROP: A clear

PROP: A clear liquid. Bp: 138.5°, flash p: 100°F (TOC), d: 0.864 @ 20°/4°, vap press: 6.72 mm @ 21°. Composition: as nonaromatics 0.07%, roluene 14%, ethyl benzene 19.27%, p-xylene 7.84%, m-xylene 65.01%, o-xylene 7.63%, C9 and aromatics 0.04% (TXA-PA9 33.543,75).

mw: 106.18

SYNS: DIMETHYLBENZENE © KSYLEN (POLISH) © METHYL TOLLIENE © NOI-055233 © RORA WASTE NUMBER 1239 © VIOLET 3 © KILOLI (ITALIAN) © XYLENEN (DUTCH) © KYLOLI (DOT) © KYLOLE (GERMAN)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 100 ppm; STEL 150 ppm ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: 1.5 g (methyl hippuric acids)/g creatinine in urine at end of shift

DFG MAK: (all isomers) 100 ppm (440 mg/m²); BAT: 150 µg/dL in blood at end of shift

NIOSH REL: (Xylene) TWA 100 ppm: CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion and inhalation. An experimental teratogen. Human systemic effects by inhalation: olfactory changes, conjunctiva irritation, and pulmonary changes. Experimental reproductive effects. Mutation data teported. A human eye irritant. An experimental skin and severe eye irritant. Some temporary corneal effects are noted, as well

X

HR: 3

HYDROFLUORIC ACID HHU500 593

HR: 1

loral odor. D: 212* F. Sol in

.PROPANOL AC-3-PHENYLPRO-DPYL ACETATE

oned in EPA

by ingestion. ted to decomand fumes.

HR: 1

ITE

NOATE (9CI)
ENYLPROPYL

DEIONATE
1

in EPA

ry by ingestion :. When heated tid smoke and

: HR: 3

llow liquid or 5°, bp: 272°, d: h p: 266°F.

IE (FCC) □ 2-RIN □ 5.4-DIHY-)ROCINNASIC □ MELILOTIN □ DCHROMAN □

ported in EPA

by intraperitoby ingestion. A uid. When heatits acrid smoke HH500D CAS:74-90-8 HYDROCYANIC ACID

DOT: NA 1051/UN 1613/UN 1614 mf: CHN mw: 27.03

PROP: Very volatile liquid or colorless gas smelling of bitter almonds. Mp: -13°, bp: 25.7°, lel: 5.6%, uel: 40%, flash p: 0° F (CC), d: 0.715 @ 0°, autoign temp: 1000° F, vap press: 400 mm @ 9.8°, vap d: 0.932. Misc in water, alc, and ether.

SYNS. ACIDE CYANHYDRIQUE (FRENCH) III ACIDO CIANIDRICO (ITALIAN) I AERO liquid HCN II BLAU-SARURE (GERMAN) LI BLAUWZUUR (DUTCH) D CAR BON HYDRIDE NITRIDE (CHN) C CYAANWATERSTOF (DUTCH) [] CYANWASSERSTOFF (GERMAN) [] CY-CLON CI CYCLONE B CI CYJANOWODOR (POLISII) CI EVERCYN II FORMIC ANAMMONIDE II FORMONI-TRILE | HYDROCYANIC ACID, aqueous solutions <5% HCN (NA 1613) (DOT) HYDROCYANIC ACID, aqueous solutions not >20% hydrocyanic acid (UN 1613). (DOT) (7 HYDROCYANIC ACID (PRUSSIC), unstabilized (DOT) I HYDROGEN CYANIDE I HYDROGEN CYA-NIDE (ACCIHIOSHA) IN HYDROGEN CYANIDE, anhydrous, stabilized (UN 1951) (DOT) - HYDROGEN CYA-NIDE, anhydrous, stabliczed, absorbed in a porous inerc material (UN 1614) (DOT) | PRUSSIC ACID | PRUSSIC ACID. UNSTABILIZED II RORA WASTE NUMBER POG3 □ ZACLONDISCOIDS

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: STEL 4.7 ppm (skin)
ACGIH TLV: CL 4.7 ppm (skin)
DFG MAK: 10 ppm (11 mg/m²)
NIOSH REL: (Cyanide) CL 5 mg(CN)
/m²/10M
DOT CLASSIFICATION: 6.1; Label: Poison

DOT CLASSIFICATION: 6.1; Label: Poison (NA 1613, UN 1613, UN 1614): DOT Class: Forbidden (unstabilized); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 1051)

SAFETY PROFILE: A deadly human and experimental poison by all routes. Hydrocyanic acid and the cyanides are true protoplasmic poisons, combining in the tissues with the enzymes associated with cellular oxidation. They thereby render the oxygen unavailable to the tissues and cause death through asphyxia. The suspension of tissue oxidation lasts only while the cyanide is present; upon its removal, normal function is restored, provided death has not already occurred.

Very dangerous fire hazard when exposed

to hear, flame, or oxidizers. Can polymerize explosively at 50–60°C or in the presence of traces of alkali. Severe explosion hazard when exposed to heat or flame or by chemical reaction with oxidizers. The anhydrous liquid is stabilized at or below room temperature by the addition of acid. The gas forms explosive mixtures with air. Reacts violently with acetaldehyde. To fight fire, use CO₁₁ non-alkaline dry chemical, foam. When heated to decomposition or in reaction with water, steam, acid, or acid fumes, it produces highly toxic fumes of CN⁺. An insecticide, See also CYANIDE.

HHS600 CAS:16872-11-0 HR: 2 HYDROFLUOBORIC ACID

DOT: UN 1775

mf: BF,•H mw: 87.82

SYNS: BORATE(1-), TETRAFLUORO-, HYDROGEN II BOROFLUORIC ACID II FLUOBORIC ACID II FLUO-BORIC ACID (DOT) II HYDROGEN TETRAFLUORO-BORATE II TETRAFLUOROBORIC ACID

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³ NIOSH REL: (Fluorides, inorganic) TWA 2.5 mg(F)/m³ DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: A severe corrosive. A severe skin and eye irritant. When heated to decomposition it emits toxic vapors of boron and F⁻.

HHU500 CAS:7664-39-3 HR: 3 HYDROFLUORIC ACID DOT: UN 1052/UN 1790

mf: fH mw: 20.01

PROP: Clear, colorless, nonflammable, fuming, corrosive liquid or gas. One of the most acidic substances known, but aq solns are only weakly acid. Dissolves silica to give H,SiF., Mp: +83.1°, bp: 19.54°, d: 0.901 g/L (gas), 0.699 @ 22° (liquid), vap press: 400 mm @ 2.5°. Very sol in H₂O, EtQH; sitly sol in Et₂O.

SYNS: ACIDE FLUORHYDRIQUE (FRENCH) ACIDE DO FLUORIDRICO (ITALIAN) DE FLUOROWODOR (POLISH) DE FLUORWASSERSTOFF (GERMAN) DE FLUORWATERSTOF (DUTCH) DE HYDROFLUORIC ACID. Solution. >60% strength (UN 1790) (DOT) DE HYDROF.

H

594 HHV000 HYDROFLUORIC ACID mixed with SULFURIC ACID

FLUORIC ACID, solution, not >60% strength (UN 1796) (DOT) ☐ HYDROGEUORIDE ☐ HYDROGEN FLUORIDE, anhydrous (UN 1052) (DOT) ☐ RCRA WASTE NUMBER U134 ☐ RUBIGINE

CONSENSUS REPORTS: EPA Extremely Hazardous Substances List. Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 3 ppm; STEL 6 ppm (F) ACGIH TLV: CL 3 ppm (F) DFG MAK: 3 ppm (2 mg/m³); BAT 7.0 mg/g creatinine in urine at end of shift NIOSH REL: (HF) TWA 2.5 mg(F)/m³; CL 5.0 mg(F)/m³/15M

DOT CLASSIFICATION: 8: Label: Corrosive, Poison

SAFETY PROFILE: A human poison by inhalation. A poison experimentally by Inhalation, subcutaneous, and intraperitoneal routes. A corrosive irritant to skin, eyes (@ 0.05 mg/L), and mucous membranes. Experimental teratogenic effects. Experimental reproductive effects. Mutation data reported. Inhalation of the vapor may cause ulcers of the upper respiratory tract. Concentrations of 50-250 ppm are dangerous, even for brief exposures. Hydrofluoric acid produces severe skin burns that are slow in healing. The subcutaneous tissues may be affected, becoming blanched and bloodless. Gangrene of the affected areas may follow. It can react violently with many substances. Reacts with water or steam to produce toxic and corrosive fumes. When heated to decomposition it emits highly corrosive fumes of F-. See also FLUORIDES.

HHV000 HR: 3 HYDROFLUORIC ACID mixed with SUL-FURIC ACID

DOT: UN 1786

SYNS: HYDROFLUORIC and SULFURIC ACIDS, MIXTURE (DOT)

SULFURIC AND HYDROFLUORIC ACIDS, MIXTURE (DOT)

DOT CLASSIFICATION: 8; Label: Corrosive, Poison

SAFETY PROFILE: Poison by ingestion, inhalation, and skin contact. A corrosive irritant to the eyes, skin and mucous membranes. When heated to decomposition it emits very toxic fumes of HF and SQ, See also HYDRO-FLUORIC ACID and SULFURIC ACID.

HHW500 CAS:1933-74-0 HR: 3

DOT: UN 1049/UN 1966 mf: H. mw: 2.02

PROP: Stable, colorless, odorless, tasteless gas. Forms compounds with almost every other element. Mp: -259.18°, bp: -252.8°, lel: 4.1%, uel: 74.2%, d: 0.0899 g/L, autoign temp: 752°F, vap d: 0.069. Very low solubility in most liquids.

SYNS: HYDROGEN (DOT) Q HYDROGEN, compressed (DOT) Q HYDROGEN, refrigerated liquid (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 2.1; Label: Flammable Gas

SAFETY PROFILE: Practically no toxicity except that it may asphyxiate. Highly dangerous fire and severe explosion hazard when exposed to heat, flame, or oxidizers. Flammable or explosive when mixed with air, O₂, chlorine. To fight fire, stop flow of gas, it can react violently with many substances.

HHW800 CAS:61788-32-7 HR: 3 HYDROGENATED TERPHENYLS

PROP: Complex mixtures of o., m., and pterphenyls in various stages of hydrogenation. Five such stages exist for each of the three above isomers.

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.5 ppm ACGIH TLV: TWA 0.5 ppm NIOSH REL: (Hydrogenated Terphenyls) TWA 0.5 ppm

SAFETY PROFILE: Contact with hot coolant can cause severe damage to lungs, skin, and eyes from burns. May cause chronic damage to liver, kidney, and blood-forming organs; metabolic disorders. Inhalation has caused bronchopneumonia. When heated to decomposition they emit acrid smoke and fumes.

HHX000 CAS:7647-01-0 HR: 3 HYDROGEN CHLORIDE

mf: CIH mw: 36.46

PROP: Colorless, corrosive, nonflammable

POTASSIUM HYDROXIDE PLJ500 975

sported in EPA

)/m')/m')/m'

by ingestion. in it emits toxic so FLUORIDES NDS.

4 HR: 2

5,28

als or powder; at 180°. Freely ally insol in abs arm.

OTASSIUM SALT 4 SALT D GLU-4 D KAON BLIN-5M D FOTASO ASSURIL D

ported in EPA

by ingestion.

it emits toxic

0-8 HR: 3 FANTALATE

: 730°.

3 D TANTALUM

orted in EPA

un, un,

ingestion and teated to detes of F- and PLH500 CAS:17029-22-0 HR: 3 POTASSIUM HEXAFLUOROARSENATE

mf: AsF₀K m

mw: 228.02

PROP: Thick, colorless plates.

SYNS: HENAFLURATE II NOPALMATE

CONSENSUS REPORTS: Arsenic and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m'; Cancer Hazard

NIOSH REL: CL 2 µg/m1/15M

SAFETY PROFILE: Confirmed human carcinogen. Poison by intravenous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of κ_1O , F-, and As. See also FLUORIDES and ARSENIC COMPOUNDS.

PLH750 CAS:16871-90-2 HR: 3 POTASSIUM HEXAFLUOROSILICATE

DOT: UN 2655

mf: F_aSi • 2K mw: 220.29

PROP: White, fine powder or colorless, cubic crystals. Moisture-sensitive. D: 2.27, mp: decomp. Sitly sol in cold water; practically insol in alc.

SYNS: POTASSIUM FLUOSILICATE II POTASSIUM SILICOFLUORIDE (DOT)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m³ NIOSH REL: TWA (Inorganic Fluorides) 2.5 mg(F)/m³

DOT CLASSIFICATION: 6.1: Label: KEEP AWAY FROM FOOD

SAFETY PROFILE: A poison by ingestion and subcutaneous routes. Ingestion can cause vomiting and diarrhea. A strong irritant. Incompatible with hydrofluoric acid. When heated to decomposition it emits toxic fumes of SiF, K,SiF, and KF.

PLI000 CAS:16919-27-0 HR: 3 POTASSIUM HEXAFLUOROTITANATE

mf: F_sTi-2K

mw: 240.10

PROP: White solid.

SYNS: FLUOTITANATE de POTASSIUM (FRENCH) III TITANIUM POTASSIUM FLUORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 2.5 mg(F)/m' NIOSH REL: TWA 2.5 mg(F)/m'

SAFETY PROFILE: Poison by subcutaneous route. When heated to decomposition it emits toxic fumes of K₂O and F⁻. See also FLUORIDES.

PLJ250 CAS:7693-26-7 HR: 3 POTASSIUM HYDRIDE

mf: HK mw: 40.11

PROP: White needles. Moisture-sensitive white crystals. Mp. decomp. d: 1.43-1.47.

SAFETY PROFILE: Dangerous fire hazard by chemical reaction. Ignites spontaneously in air. Moderate explosion hazard when exposed to heat or by chemical reaction. Will react with water, steam, or acids to produce H, which then ignites. Can react vigorously with oxidizing materials. To fight fire, use CO., dry chemical. Potentially explosive reactions with o-2.4-dinitrophenylhydroxylamine, fluoroalkenes, Ignites on contact with air, oxygen + moisture, fluorine. Incompatible with Cl., acetic acid, acrolein, acrylonitrile. $(CaC + Ci_1)$, CIO_2 , $(H_2O_2 + Cl_2)$, $(CHFI_1)$ + CH,OH), 1,2-dichloroethylene, maleic anhydride. (n-methyl-n-nitrosourea + CH,Cl,). nitroethane, NCl,, nitromethane, nitroparaffins, o-nitrophenol, nitropropane, n-nitrosomethylurea, (nitrosomethylurea + CH.Cl.). H.O. trichloroethylene, tetrahydrofuran, tetrachlorethane. When heated to decomposition it emits highly toxic fumes of K₂O. See also POTASSIUM and HYDRIDES.

PLJ500 CAS:1310-58-3 HR: 3 POTASSIUM HYDROXIDE

DOT: UN 1813/UN 1814 mf: HKO mw: 56.11

PROP: White or colorless, orthorhombic, deliquescent pieces, lumps, or sticks having crystalline fracture. Mp: 406°, bp: 1324°, d: 2.044. Very sol in water, alc; sol in EtOH; insol in Et₂O.

SYNS: CAUSTIC POTASH © CAUSTIC POTASH, dry, solid, flake, bend, or granular (DOT) © CAUSTIC POTASH, liquid or solution (DOT) © HYDROXYDE de POTASSIUM (FRENCH) © KALIUMHYDROXID (GERMAN) © KALIUMHYDROXYDE (DUTCH) © TYE © POTASSA

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976 PLK000 POTASSIUM HYPOCHLORITE

☐ POTASSE CAUSTIQUE (FRENCH) ☐ POTASSIO (IDROSSIDO di) (ITALIAN) ☐ POTASSIUM HYDRATE (DOT) ☐ POTASSIUM HYDROXIDE, dry, solid, flake, bead, or granular (DOT) ☐ POTASSIUM HYDROXIDE, biquid or solution (DOT) ☐ POTASSIUM (HYDROXYDE de) (FRENCH)

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: CL 2 mg/m' ACGIH TLV: CL 2 mg/m'

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Poison by ingestion. An eye irritant and severe human skin irritant. Very corrosive to the eyes, skin, and mucous membranes. Mutation data reported. Ingestion may cause violent pain in throat and epigastrium, hematemesis, collapse. Stricture of esophagus may result if substance is not immediately fatal. Above 84° lt reacts with reducing sugars to form poisonous carbon monoxide gas. Violent, exothermic reaction with water. Potentially explosive reaction with bromoform + crown ethers, chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride, peroxidized tetrahydrofuran, 2,4.6-trinitrotoluene. Reaction with ammonium hexachloroplatinate(2) + heat forms a heat-sensitive explosive product. Violent reaction or ignition under the appropriate conditions with acids, alcohols. p-bis(1,3-dibromoethyl)benzene, cyclopentadiene, germanium, hyponitrous acid, maleic anhydride, nitroalkanes, 2-nitrophenol, porassium peroxodisulfate, sugars. 2,2,3,3tetrafluoropropanol, thorium dicarbide. When heated to decomposition it emits toxic fumes of K,O. See also SODIUM HYDROX-IDE.

PLK000 CAS:7778-66-7 HR: 3 POTASSIUM HYPOCHLORITE

mf: ClHO-K mw: 91.56

SYNS: Hypochlorous acid, potassium salt III

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 52,159,91; Animal Inadequare Evidence IMEMDT 52,159,91; Human No Available Data IMEMDT 52,159, 91. Reported in EPA TSCA Inventory.

SAFETY PROFILE: A poison by all routes. Powerful irritant and corrosive to skin, eyes, and mucous membranes. When heated to

decomposition it emits toxic fumes of K₂O and Cl⁻. See also HYPOCHLORITES.

PLK250 CAS:7758-05-6 HR: 3 POTASSIUM IODATE

mf: 103 · K mw: 214.00

PROP: Colorless, triclinic crystals or white crystalline powder. Becomes monoclinic at 72°. Also undergoes 2 phase changes below room temp, but remains triclinic. Mp: 560°, d: 3.89. Very sol in H,O; insol in alc.

SYN: 1001C ACIODIC ACID, POTASSIUM SALT

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. A trace mineral added to animal feeds. Potentially explosive reaction with charcoal + ozone, metals (e.g., powdered aluminum. copper), arsenic carbon, phosphorus, sulfur, alkali metal hydrides, alkaline earth metal hydrides, antimony sulfide, arsenic sulfide, copper sulfide, tin sulfide, metal cyanides, metal thiocyanates, manganese dioxide, phosphorus. Violent reaction with organic matter. When heated to decomposition it emits very toxic fumes of I- and K.O. See also IODATES.

PLK500 CAS:7681-11-0 HR: 3 POTASSIUM IODIDE

mf: IK mw: 166.00

PROP: Colorless or white granules or colorless cubic crystals. Mp: 681°, bp: 1330°, d: 3.13, vap press: 1 mm @ 745°. Skily hygroscopic. Very sol in water; mod sol in alc and Me₂CO; sparingly sol in Et₂O.

SYNS: KI-N I KNOLLIDE I POTIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and intraperitoneal routes. Human teratogenic effects by ingestion: developmental abnormalities of the endocrine system. Experimental teratogenic and reproductive effects. Mutation data reported. Explosive reaction with charcoal + ozone, trifluoroacetyl hypofluorite, fluorine perchlorate. Violent reaction or ignition on contact with diazonium salts, diisopropyl peroxydicarbonate, bro-

POTASSIUM CHROMIC SULFATE PLB500 971

ethyl carbonicetate, ethyl opropanol, 4butyl ketone, ite. propanol, heated in air, it emits toxic

HR: 3

anular, translkaline taste: linic crystals, te at 2°. De-. D: 2.428 @

1)

M SALT 🗆 KAL J PEARL ASH

Sol in water;

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ing from A 1 KCO, chloutation data mposition it

HR: 3

:, colorless ling, saline ". Mp: 356", 1 H.O; insol

E de POTASSIDOT) II FEK.
KALIUMCHLONSH II PEARL
FASSIO
CHLORATE
RENCH) II
II POTASSIII POTASSIII POTASSI-

ed in EPA

OF TARTAR

DOT CLASSIFICATION: 5.1; Label: Oxidizer

SAFETY PROFILE: Moderately toxic to humans by an unspecified route. Moderately toxic experimentally by ingestion and intraperitoneal routes. A gastrointestinal tract and kidney irritant. Can cause hemolysis of red blood cells and merhemoglobinemia. Toxic dose to a human is about 5 g.

A powerful oxidizer and very reactive material. It has been the cause of many industrial explosions. May explode on heating, Explosive reactions with ammonium chloride, aqua regia + ruthenium, sulfur dioxide solutions in ether or ethanol. Reacts with fluorine to form the explosive gas fluorine perchlorate. It can react violently with many substances. When heated to decomposition it emits very toxic fumes of Cland K.O. Used in the manufacture of soap, glass, and pottery. See also CHLORATES.

PLA500 CAS:7447-40-7 HR: 3 POTASSIUM CHLORIDE

mf: ClK mw: 74.55

PROP: Colorless or white crystals or powder; odorless with salty taste. D: 1.987, mp: 771* (subl @ 1500*). Very sol in H₂O; sol in Et₂O; sparingly sol in EtOH.

SYNS: CILLORID DRASELNY (CXECH) II CHLOROPOTASSURIL II DIPOTASSIUM DICHLORIDE II EMPLETS POTASSIUM CHLORIDE II ENSEAL II KALITADS
II KAOCHLOR II KAON-CI II KAY CIEL II K-LOR II
KLOTRIX III K-PRENDE-DOME III PEIKLOR III POTASSIL'M MONOCHLORIDE III POTAVESCENT III REKAWAN
III SLOW-K III TRIPOTASSIUM TRICHLORIDE

CONSENSUS REPORTS: Reported in EPA TSCA Inventory

SAFETY PROFILE: A human poison by ingestion. Poison experimentally by ingestion, intravenous, and intraperitoneal routes. Human systemic effects by ingestion: nausea, blood clotting changes, cardiac arrhythmias. An eye irritant. Mutation data reported. Explosive reaction with BrF., sulfuric acid + potassium permanganate. When heated to decomposition it emits toxic fumes of K₂O and Cl⁻.

PLB250 CAS:7789-00-6 HR: 3 POTASSIUM CHROMATE(VI)

mf: CrO,-2K

mw: 194.20

PROP: Rhombic, yellow crystals. Mp: 975°, d: 2.73 @ 18°. Sol in water; insol in alc. Me₂CO, and PhCN.

SYNS: RIPOTASSIUM CHROMATE II CHROMATE OF POTASSIUM III DIPOTASSIUM CHROMATE III DIPOTASSIUM MONOCHROMATE III NEUTRAL POTASSIUM CHROMATE III TARAPACAITE

CONSENSUS REPORTS: NTP 7th Annual Report On Carcinogens. IARC Cancer Review: Group 1 IMEMDT 49,49,90; Human Sufficient Evidence IMEMDT 49,49,90; Human Inadequate Evidence IMEMDT 23, 205,80; Animal Inadequate Evidence IMEMDT 23,205,80. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Chromium and its compounds are on the Community Right-To-Know List.

OSHA PEL: CL 0.1 mg(CrO₃)/m³ ACGIH TLV: TWA 0.05 mg(Cr)/m³; Confirmed Human Carcinogen

SAFETY PROFILE: Confirmed carcinogen with experimental tumorigenic data. Poison by ingestion, intravenous, subcutaneous, and intramuscular routes. An experimental teratogen. Other experimental reproductive effects. Human mutation data reported. A powerful oxidizer. When heated to decomposition it emits toxic fumes of K₂O. Used as a mordant for wool, in the oxidizing and treatment of dyes on materials. See also CHROMIUM COMPOUNDS.

PLB500 CAS:10141-00-1 HR: D POTASSIUM CHROMIC SULFATE mf: Cr-2H₂O₂S·K mw: 287.26

SYNS: CHROME ALUM II CHROME POTASH ALUM II CHROMIC POTASSIUM SULFATE III CHROMIC POTASSIUM SULFATE III CHROMIUM POTASSIUM SULFATE (1:1:2) III CHROMIUM POTASSIUM SULPHATE IIII CHROME ALUM IIII POTASSIUM CHROMIC SULPHATE IIII POTASSIUM CHROMIUM ALUM IIII POTASSIUM DISULPHATOCHROMATE(111) IIII SULFURIC ACID. CHROMIUM (3+) POTASSIUM SALT (2:1:1)

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 49,49,90; Animal Inadequate Evidence IMEMDT 49,49,90; Human Inadequate Evidence IMEMDT 49, 49,90. Chromium and its compounds are on the Community Right-To-Know List. ReportP

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SILVER(I) NITHATE (1:1) SDS000 1045

nic): TWA 2.5

· intravenous imposition it d for plating DUNDS, BO-ORIDES.

HR: 3

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oluble silver ne skin and luse death if gol is lethal shows necroand kidney. inds into the leposition of ssues of the uction of a n of the skin ition known ; of soluble on of a total grosis. The Of silver uces a local ie injury, I effects. The iy after 3-25 i is noticeater in the h and gums institutional .y. Persons vho subsedisease. of silver in estes, pituous memra, trachea. here is no ver_can be

nent.

SDP000 CAS:506-64-9 HR: 3 SILVER CYANIDE

DOT: UN 1684

mf: CAgN mw: 133.89

PROP: White, odorless, tasteless powder that darkens upon exposure to light. Stable in dry air. Mp: 320° (decomp). d: 3.95. Insol in H₂O, alcohols, and dil acids. Sol in aq alkali cyanides, boiling conc HNO.

SYNS: CYANURE L'ARGENT (FRENCH) IL KYANID STRIBRNY (CZECH) IL RCRA WASTE NUMBER PHO-

CONSENSUS REPORTS: Silver and its compounds, as well as cyanide and its compounds, are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: Deadly poison by ingestion. A skin and severe eye irritant. When heated to decomposition it emits very toxic fumes of CN⁻ and NQ, Incompatible with phosphorus tricyanide, fluorine. Used in silver plating. See also SILVER COMPOUNDS and CYANIDE.

SDQ500 CAS:7783-95-1 HR: 3 SILVER(II) FLUORIDE

mf: Agf, mw: 145.87

PROP: Very hygroscopic: white when pure: usually a gray-black or brownish amorphous solid. Light sensitive. D: 4.7, mp: 690°.

SYNS: ARGENT FLUORURE (FRENCH) III ARGENTIC FLUORIDE III SILVER DIFLLUORIDE

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List, Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.01 mg(Ag)/m'; 2.5 mg (F)/m'

ACGIH TLV: TWA 0.01 mg(Ag)/m⁴; 2.5 mg (F)/m⁴

NIOSH REL: (Inorganic Fluorides) TWA 3.5 mg(F)/m³

SAFETY PROFILE: Poison by subcutaneous route. Powerful oxidizing agent. Mixtures with boron + water are explosive. When heated to decomposition it emits toxic fumes of F-. See also FLUORIDES and SILVER COMPOUNDS.

SDR500 CAS:2386-52-9 HR: 3 SILVER METHYLSULFONATE

mf: CH,O,S-Ag mw: 202.97

SYNS: METHANESULFONIC ACID, SHIVER SALT CI METHANESULFONIC ACID, SHIVER IT SALT CI SHIVER METHANESULFONATE

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List, Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.01 mg(Ag)/m⁴ ACGIH TLV: TWA 0.01 mg(Ag)/m⁴

SAFETY PROFILE: Poison by intravenous route. When heated to decomposition it emits toxic fumes of SQ, See also SULFONATES and SILVER COMPOUNDS.

SDS000 CAS:7761-88-8 HR: 3 SILVER(I) NITRATE (1:1)

DOT: UN 1493

mf: NO,-Ag mw: 169.88

PROP: Colorless, odorless, transparent, large or small white crystals. Not photosensitive when pure. Mp. 212°, bp: 444° (decomp), d: 4.352 @ 19°. Very sol in ammonia, water; skly sol in ether.

SYNS: LUNAR CAUSTIC I NURATE DARGENT (FRENCH) II NUTRIC ACID. SILVER(1+) SALT II SILVERNITRATE II SILVER NUTRATE (DOT)

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List. EPA Genetic Toxicology Program. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.01 mg(Ag)/m²
ACGIH TLV; TWA 0.01 mg(Ag)/m²
DOT CLASSIFICATION: 5.1: Label: Oxidizer

SAFETY PROFILE: A human poison. Experimental poison by ingestion, intravenous subcutaneous, and intraperitoneal routes. Experimental reproductive effects. Human mutation data reported. A severe eye irritant. A powerful caustic and irritant to skin, eyes, and mucous membranes. Swallowing can cause severe gastroenteritis that may be faul. Questionable carcinogen with experimental tumorigenic data. A powerful oxidizer. In compatible with acetylene, acetylides, alkalies, aluminum, antimony salts, arsenic, arsenites, bromides, carbon, carbonates, chlorides, CIF, chlorosulfuric acid, copper,

1946 SDU500 SILVER(1+) OXIDE

creosote, ethanol, ferrous salts, hypophosphites, iodides, Mg powder with H₂O, morphine salts, NH, with KOH to yield black Ag₂N, oils. PH₄, phosphates, phosphonium iodide, phosphorus, plustics, sulfur, tannic acid, tartrates, thiocyanates, vegetable decoctions and extracts, zinc with NH, with KOH. When heated to decomposition it emits toxic fumes of NQ. See also SILVER COMPOUNDS and NITRATES.

SDU500 CAS:20667-12-3 HR: 3 S!LVER(1+) OXIDE

mf: Ag₂O mw: 231.74

PROP: Brownish-black, heavy, odorless powder. Light sensitive. D: 7.22 @ 25°/4°. Decomp at approx 200°. Very sol in dilute nitric acid, ammonia; less sol in NaOH solns; insol in alc

SYNS: ARGENTOUS ONIDE IN DISHIVER ONIDE

CONSENSUS REPORTS: Silver and its compounds are on the Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.01 mg(Ag)/m^c ACGIH TLV: TWA 0.01 mg(Ag)/m^c

SAFETY PROFILE: A poison by intraperitonical route. Moderately toxic by ingestion. Flammable by chemical reaction: an oxidizing agent. Explodes in contact with ammonia. Incompatible with CuO, (NH. + ethanol), (hydrazine + ethanol), CO, H,S, Mg, auric sulfide, Sb sulfide, Hg sulfide, nitroalkanes, Se, S. P. K, Na, NaK, seieninyl chloride. See also SILVER COMPOUNDS.

SDW000 HR: 3 SILVER PEROXYCHROMATE

mf: AgCrO, mw: 239.87

CONSENSUS REPORTS: Silver and its compounds, as well as chromium and its compounds, are on the Community Right-To-Know List.

SAFETY PROFILE: Confirmed carcinogen. An oxidant. When mixed with H₂SO₄@ -80° it explodes on slow warming to -30°. See also CHROMIUM and SILVER COMPOUNDS.

SEB000 SMOG

HR: 2

PROP: An atmospheric combination of smoke, fog, and industrial gases. Composition: Contents vary, but sulfur dioxide, oxides of nitrogen, and ozone are common components; others are sulfides. fluorides, chlorides, carbon particles, and various hydrocarbons.

SAFETY PROFILE: Moderately irritating to eyes and mucous membranes. Numerous chronic effects have been reported in susceptible populations. A common air contaminant. Possibly carcinogenic.

SEC000 HR: 3 SMOKE CONDENSATE, cigarette

SYNS: GIGARETTE SMORE CONDENSATE \square CSC \square TOBACCO SMORE CONDENSATE \square TOBACCO TAR

CONSENSUS REPORTS: IARC Cancer Review: Group 1 IMEMDT 7,359.87; Human Sufficient Evidence IMEMDT 38,309.86; Animal Sufficient Evidence IMEMDT 38,309, 86.

SAFETY PROFILE: Confirmed carcinogen with experimental carcinogenic, neoplastigenic, and tumorlgenic data. An experimental tetatogen. Human mutation data reported. See also NICOTINE, SMOKELESS TOBACCO, and various tobacco entries.

SED400 SMOKELESS TOBACCO

HR: 3

PROP: A variety of habituating substances containing tobacco as the major ingredient and used without burning. Tobacco is a product of the leaves and stems of two species of Nicotiana. N. tabacum (grown in North America and Western Europe) and N. rustica (grown in the former USSR and India). There is considerable evidence that many if not all of the forms of smokeless tobacco are human carcinogens.

The smokeless tobaccos are introduced into the body through the mouth (chewing tobacco, snuff, misshri, gudakhu, shammah, khaini, nass, naswar, or in combination with betel quid) or nose (snuff),

The various smokeless tobacco products are described below:

Chewing tobacco is placed between the